

479	HCUAO46	610056	489	169 - 261	3086	Glu-26 to Lys-31.	H0306: 1 and L0766: 1.			
480	HCUAT74	834611	490	405 - 503	3087	Gln-11 to Gln-22.	AR060: 4, AR316: 4, AR089: 3 L0761: 7, L0747: 6, S0045: 4, L0766: 4, L0755: 4, L0770: 3, S0126: 3, L0731: 3, H0657: 2, H0730: 2, L0623: 2, H0546: 2, H0150: 2, H0012: 2, H0620: 2, H0529: 2, H0739: 1, S0024: 1, T0049: 1, H0381: 1, H0663: 1, H0306: 1, H0549: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, H0599: 1, T0048: 1, H0597: 1, H0544: 1, H0545: 1, H0567: 1, H0571: 1, H0083: 1, H0428: 1, T0006: 1, L0142: 1, H0617: 1, L0055: 1, S0036: 1, H0087: 1, H0412: 1, T0041: 1, S0438: 1, L0763: 1, L5565: 1, L0372: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0383: 1, S0296: 1, S0380: 1, H0710: 1, H0528: 1, S0406: 1, H0576: 1, H0631: 1, L0611: 1, S0027: 1, L0757: 1, L0758: 1, L0588: 1, H0423: 1 and H0506: 1.			
481	HCUBA28	846300	491	65 - 217	3088	Met-1 to Pro-6, Pro-37 to Lys-51.	L0751: 19, L0748: 13, L0754: 8, L0758: 8, L0605: 8, L0755: 7, H0253: 6, S0406: 6, L0744: 6, L0745: 6, L0757: 6, S0476: 5, L0740: 5, L0747: 5, L0750: 5, L0731: 5, L0596: 5, H0423: 5, S0442: 4, S0046: 4, H0156: 4, H0581: 4, H0014: 4, H0617: 4, L0752: 4, L0753: 4, S0007: 3, L0717: 3, S0278: 3, H0632: 3, H0618: 3, H0046: 3, H0551: 3, S0440: 3, H0509: 3, L0761: 3, L0766: 3, L0659: 3, H0144: 3, H0435: 3, S0380: 3,	7		



482	HCUBC45	722211	492	98 - 211	3089		L0773: 1, L0648: 1, L0386: 1, L0776: 1, L0655: 1, L0783: 1, L0543: 1, L0790: 1, L0666: 1, L0664: 1, S0374: 1, S0126: 1, H0682: 1, H0648: 1, S0328: 1, H0539: 1, H0696: 1, H0704: 1, H0576: 1, S0027: 1, L0749: 1, L0779: 1, H0444: 1, L0588: 1, L0361: 1, L0601: 1, L0366: 1, H0653: 1, S0242: 1, H0543: 1, S0424: 1 and S0446: 1.		
							L0744: 9, L0731: 8, L0439: 7, H0144: 5, L0749: 5, L0748: 4, L0758: 4, H0013: 3, H0038: 3, S0344: 3, L0769: 3, L0773: 3, L0755: 3, S0040: 2, H0306: 2, S0356: 2, S0358: 2, H0550: 2, H0392: 2, S0280: 2, H0620: 2, T0003: 2, H0598: 2, S0036: 2, H0623: 2, S0038: 2, S0002: 2, L0662: 2, L0768: 2, L0561: 2, L0775: 2, L0776: 2, L0527: 2, L0783: 2, L0438: 2, S0126: 2, H0539: 2, S0152: 2, H0521: 2, S3014: 2, L0754: 2, L0747: 2, L0780: 2, L0752: 2, L0757: 2, L0591: 2, L0608: 2, L0362: 2, L0361: 2, L0601: 2, L0603: 2, H0170: 1, H0265: 1, H0556: 1, T0002: 1, S0114: 1, L0427: 1, S0116: 1, S0282: 1, H0402: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0045: 1, S0132: 1, S0476: 1, S0278: 1, H0549: 1, S0222: 1, S6014: 1, H0497: 1, H0333: 1, H0069: 1, L0021: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0085: 1, H0327: 1, H0150: 1, H0178: 1, H0050: 1, H0024: 1, H0051:		

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483	HCUBM41	826705	493	27 - 206	3090	Ile-25 to Thr-37.	H0306: 1 and H0402: 1.								
484	HCUBN69	826610	494	152 - 271	3091		L0002: 1, H0306: 1 and H0402: 1.								
485	HCUBY47	842787	495	337 - 699	3092	Pro-26 to Asn-34, Asp-45 to Arg-64, Pro-93 to Pro-108.	H0306: 1, H0486: 1 and H0539: 1.	1							
486	HCUCV66	806577	496	744 - 881	3093	Ser-21 to His-29.	AR089: 2, AR316: 2, AR060: 2 L0750: 6, L0809: 5, L0757: 4, L0759: 4, L0770: 3, L0764: 3, L0740: 3, L0731: 3, H0170: 2, H0271: 2, H0494: 2, L0769: 2, L0794: 2, L0766: 2, L0663: 2, L0665: 2, H0144: 2, L0749: 2, L0777: 2, L0591: 2, H0542: 2, H0677: 2, H0717: 1, H0484: 2.	22							



487	HCUDJ41	610062	497	229 - 291	3094				1, H0483: 1, H0306: 1, H0125: 1, S0418: 1, H0393: 1, H0411: 1, H0549: 1, H0614: 1, T0109: 1, H0013: 1, H0309: 1, H0545: 1, H0046: 1, H0024: 1, H0617: 1, L0456: 1, S0366: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, S0438: 1, L0761: 1, L0772: 1, L0651: 1, H0547: 1, H0593: 1, S0328: 1, S0380: 1, S3014: 1, S0027: 1, S0206: 1, L0748: 1, L0755: 1, L0758: 1, H0445: 1 and S0446: 1.		
488	HCUDEC55	534214	498	227 - 358	3095	Glu-37 to Ser-44.			H0402: 1 and H0436: 1.		
489	HCUJEG85	610072	499	200 - 307	3096				H0402: 1		
490	HCUJES35	694950	500	25 - 126	3097	Asn-25 to Trp-32.			AR213: 6, AR250: 6, AR169: 6, AR212: 5, AR224: 5, AR313: 4, AR266: 4, AR221: 4, AR178: 4, AR089: 4, AR053: 4, AR183: 4, AR165: 4, AR162: 4, AR161: 4, AR222: 4, AR166: 4, AR164: 4, AR163: 4, AR173: 4, AR175: 4, AR300: 4, AR096: 3, AR170: 3, AR196: 3, AR269: 3, AR311: 3, AR263: 3, AR312: 3, AR308: 3, AR270: 3, AR290: 3, AR268: 3, AR188: 3, AR247: 3, AR225: 3, AR191: 3, AR190: 3, AR174: 3, AR285: 3, AR291: 3, AR216: 3, AR171: 3, AR287: 3, AR179: 3, AR297: 3, AR189: 3, AR033: 3,		

491	HCUFC77	745374	501	65 - 184	3098			AR180: 3, AR293: 3, AR245: 2, AR219: 2, AR257: 2, AR288: 2, AR182: 2, AR289: 2, AR238: 2, AR236: 2, AR254: 2, AR218: 2, AR274: 2, AR316: 2, AR286: 2, AR299: 2, AR200: 2, AR240: 2, AR262: 2, AR255: 2, AR172: 2, AR295: 2, AR214: 2, AR197: 2, AR203: 2, AR229: 2, AR267: 2, AR104: 2, AR210: 2, AR294: 2, AR275: 2, AR198: 2, AR195: 2, AR264: 2, AR199: 2, AR309: 2, AR181: 2, AR258: 2, AR282: 2, AR256: 2, AR233: 2, AR231: 2, AR234: 2, AR226: 2, AR272: 2, AR185: 2, AR239: 2, AR261: 1, AR060: 1, AR223: 1, AR296: 1, AR177: 1, AR237: 1, AR193: 1, AR228: 1, AR283: 1, AR232: 1, AR260: 1, AR061: 1, AR211: 1 H0402: 5, H0556: 1, H0306: 1, H0274: 1, H0318: 1, H0310: 1, H0396: 1, L0387: 1, L0804: 1 and H0445: 1.		
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492	HCUFD17	847039	502	230 - 319	3099	Asp-20 to Ser-29.	<p>1, L0809: 1, L0528: 1, L0788: 1, L0789: 1, L0565: 1, H0519: 1, H0682: 1, H0658: 1, H0648: 1, S0328: 1, H0539: 1, H0521: 1, H0696: 1, S0406: 1, H0555: 1, L0740: 1, L0757: 1, H0665: 1, S0196: 1, H0423: 1, H0422: 1 and S0460: 1.</p> <p>AR089: 18, AR316: 14, AR060: 11</p> <p>H0556: 10, H0013: 8, L0766: 7, H0265: 5, L0748: 5, S0022: 4, L0794: 4, H0542: 4, H0318: 3, H0024: 3, H0616: 3, T0041: 3, H0144: 3, L0596: 3, S0040: 2, H0402: 2, S0476: 2, H0587: 2, H0156: 2, S0010: 2, H0544: 2, H0123: 2, H0050: 2, H0615: 2, H0644: 2, H0135: 2, H0591: 2, H0038: 2, H0634: 2, H0494: 2, S0150: 2, L0805: 2, L0657: 2, L0666: 2, S0380: 2, H0521: 2, L0740: 2, L0749: 2, L0752: 2, L0731: 2, L0588: 2, L0605: 2, L0591: 2, L0599: 2, H0543: 2, S0624: 1, S0134: 1, H0657: 1, S0116: 1, S0420: 1, S0356: 1, H0580: 1, S0046: 1, H0437: 1, H0261: 1, H0549: 1, H0574: 1, L0623: 1, T0114: 1, S0280: 1, H0599: 1, H0575: 1, H0590: 1, H0120: 1, S0346: 1, H0705: 1, H0421: 1, H0052: 1, H0566: 1, H0083: 1, H0266: 1, H0271: 1, H0687: 1, H0292: 1, H0284: 1, L0483: 1, H0031: 1, H0553: 1, H0674: 1, S0366: 1, S0036: 1, H0264: 1, H0100: 1, H0625: 1, H0641: 1, S0144: 1, S0426: 1, L0763: 1, L0761: 1, L0764: 1.</p>	3p21.2-p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 238310, 600163, 601226
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493	HCUFD46	757481	503	101 - 202	3100				H0305: 3 and H0402: 1.				
494	HCUFE33	637568	504	90 - 236	3101				H0402: 1				
495	HCUFI09	821323	505	352 - 501	3102				AR089: 4, AR316: 4, AR060: 3 L0439: 58, L0438: 21, H0556: 7, H0052: 7, L0771: 6, L0743: 6, L0776: 5, S0222: 4, H0438: 4, L0351: 4, L0779: 4, S0418: 3, S0278: 3, L0770: 3, L0761: 3, L0366: 3, H0265: 2, S0040: 2, L0415: 2, S0045: 2, H0619: 2, H0643: 2, H0492: 2, H0486: 2, H0581: 2, H0620: 2, T0010: 2, H0266: 2, H0604: 2, H0031: 2, H0100: 2, L0662: 2, L0768: 2, L0665: 2, H0144: 2, L0352: 2, H0672: 2, H0521: 2, L0746: 2, L0756: 2, L0777: 2, L0731: 2, H0624: 1, T0002: 1, H0140: 1, H0583: 1, H0255: 1, H0402: 1, H0305: 1, H0458: 1, S0420: 1, S0354: 1, S0358: 1, H0645: 1, S6026: 1, S6022: 1, H0392: 1, H0559: 1, H0013: 1, H0069: 1, H0156: 1, H0590: 1, S0346: 1, H0085: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0041: 1, H0563: 1, L0471: 1, S0388: 1, S0051: 1, H0271: 1, H0416: 1, H0188: 1, H0288: 1,	20q13.31-20q13.33	261680		

									S0022: 1, L0483: 1, T0006: 1, H0213: 1, H0628: 1, H0617: 1, L0055: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0505: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.			
496	HCUFQ58	767432	506	295 - 399	3103				H0305: 3, L0659: 2, H0306: 1, H0402: 1, H0575: 1, H0050: 1, L0483: 1, H0561: 1, S0426: 1, L0648: 1, L0653: 1, L0754: 1, L0731: 1, L0584: 1 and L0601: 1.			
497	HCUFQ58	861871	507	293 - 397	3104				H0305: 3, L0659: 2, H0306: 1, H0402: 1, H0575: 1, H0050: 1, L0483: 1, H0561: 1, S0426: 1, L0648: 1, L0653: 1, L0754: 1, L0731: 1, L0584: 1 and L0601: 1.			
498	HCUFX08	612843	508	280 - 345	3105				H0402: 1			134790, 191044,
499	HCUGB76	651312	509	263 - 373	3106	Trp-13 to Leu-18.			L0764: 2, H0306: 1, H0402: 1, H0428: 1, H0087: 1 and L0361: 1.	19q13.4		600040, 600138
500	HCUGK79	612779	510	80 - 94	3107				H0402: 1 and S0424: 1.			
501	HCUGQ19	637569	511	359 - 448	3108	Cys-12 to Arg-20.			H0402: 2			
502	HCUGR26	799515	512	27 - 176	3109	Lys-23 to Gln-29.			H0402: 1			
503	HCUGR86	839653	513	831 - 941	3110	Gln-20 to Pro-29.			AR089: 3, AR316: 2,			

504	HCUHE27	562766	514	213 - 245	3111		AR060: 2 H0402: 1			
505	HCUHL82	610044	515	50 - 145	3112		AR089: 12, AR316: 7, AR060: 4 H0402: 1 and L0749: 1.			
506	HCUHM71	825975	516	80 - 334	3113		S0026: 2, H0402: 1, S0045: 1, H0616: 1 and L0375: 1.			
507	HCWAK88	839083	517	115 - 255	3114		H0402: 1, H0252: 1, H0696: 1 and L0748: 1.			
508	HCWAL10	639023	518	362 - 394	3115		H0305: 2 H0305: 5, L0534: 2, S0216: 2, H0589: 1, L0562: 1, L0539: 1, S0045: 1, H0318: 1, S0052: 1, L0602: 1 and L0777: 1.	7q11.23		116860, 129900, 233700, 600079
509	HCWAT71	801985	519	142 - 249	3116		H0305: 1 and H0589: 1.			
510	HCWBQ52	732039	520	284 - 370	3117		H0305: 1			
511	HCWCH16	847041	521	166 - 189	3118		AR241: 4, AR246: 3, AR182: 3, AR309: 3, AR270: 3, AR310: 3, AR269: 3, AR249: 3, AR312: 2, AR175: 2, AR296: 2, AR313: 2, AR229: 2, AR183: 2, AR293: 2, AR184: 2, AR282: 2, AR263: 2, AR060: 2, AR299: 2, AR226: 2, AR273: 2, AR238: 2, AR089: 2, AR247: 2, AR266: 2, AR186: 2, AR300: 2, AR294: 1, AR233: 1, AR286: 1, AR291: 1, AR185: 1, AR267: 1, AR316: 1, AR205: 1, AR292: 1, AR231: 1, AR055: 1, AR052: 1 H0305: 1			
512	HCWDM69	684527	522	328 - 342	3119		AR089: 11, AR316: 7, AR060: 4			

								H0305: 3, H0510: 1 and L0766: 1.			
513	HCWEB38	899446	523	223 - 405	3120	Arg-19 to Gly-26.		H0305: 5			
514	HCWEB72	639041	524	86 - 169	3121			AR089: 10, AR316: 7, AR060: 3 H0305: 9			
515	HCWEF04	899865	525	25 - 381	3122	Lys-107 to Lys-119.		AR089: 5, AR316: 4, AR060: 3 H0584: 17, H0124: 12, S0126: 12, H0046: 11, H0271: 10, H0622: 10, H0494: 10, L0659: 10, L0743: 10, S0358: 9, L0744: 9, H0265: 8, H0556: 8, S0046: 8, S0356: 7, H0575: 7, L0662: 7, S0052: 7, H0519: 7, L0439: 7, L0751: 7, L0758: 7, H0295: 6, S0418: 6, S0376: 6, S0360: 6, H0370: 6, H0318: 6, H0581: 6, H0266: 6, H0553: 6, H0560: 6, H0561: 6, L0762: 6, S0152: 6, H0521: 6, S0027: 6, L0731: 6, H0167: 5, S0420: 5, H0039: 5, H0538: 5, L0766: 5, H0670: 5, H0518: 5, L0757: 5, H0656: 4, H0341: 4, H0662: 4, H0305: 4, H0427: 4, H0599: 4, H0620: 4, H0412: 4, S0144: 4, L0655: 4, H0672: 4, L0748: 4, L0754: 4, H0445: 4, L0581: 4, L0595: 4, H0653: 4, H0506: 4, H0583: 3, H0255: 3, H0663: 3, S0278: 3, H0497: 3, H0486: 3, H0050: 3, H0024: 3, H0083: 3, H0416: 3, H0615: 3, H0068: 3, H0634: 3, H0623: 3, S0208: 3, S0210: 3, H0529: 3, L0646: 3, L0764: 3, L0378: 3, H0660: 3, L0603: 3, S0276: 3, S0424: 3, H0294: 2, H0458: 2, H0638: 2, S0354: 2, H0676: 2, H0580: 2,	1q21-q25	104770, 107300, 107670, 110700, 131210, 135940, 136132, 145001, 146790, 150292, 152445, 152445, 159001, 173610, 174000, 179755, 182860, 182860, 182860, 191315, 208250, 230800, 230800, 233710, 266200, 600897, 600995, 601105, 601412, 601518, 601652, 602491	



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516	HCWEI82	799516	526	135 - 155	3123				1, L0386: 1, L0375: 1, L0376: 1, L0657: 1, L0782: 1, L0783: 1, L0382: 1, L0809: 1, L0545: 1, L0665: 1, S0216: 1, L0565: 1, S0310: 1, H0547: 1, H0539: 1, H0522: 1, S0044: 1, S0028: 1, L0740: 1, L0747: 1, L0777: 1, L0755: 1, H0444: 1, H0422: 1, H0677: 1, S0456: 1 and S0446: 1.		
517	HCWEM96	812735	527	1156 - 1266	3124	Ser-3 to Thr-11.			H0305: 2 and H0589: 1. AR224: 3, AR252: 3, AR217: 3, AR197: 2, AR263: 2, AR309: 2, AR243: 2, AR104: 2, AR266: 1, AR181: 1, AR089: 1, AR275: 1, AR285: 1, AR257: 1 L0754: 45, L0747: 8, H0553: 7, L0755: 5, L0659: 4, H0124: 3, L0748: 3, H0265: 2, H0556: 2, H0305: 2, S0408: 2, H0586: 2, H0427: 2, H0599: 2, H0575: 2, H0050: 2, L0471: 2, H0616: 2, H0056: 2, L0764: 2, L0662: 2, L0794: 2, L0751: 2, L0749: 2, L0750: 2, H0713: 1, H0717: 1, H0300: 1, S0358: 1, S0045: 1, S0046: 1, H0619: 1, H0441: 1, H0485: 1, S0280: 1, H0042: 1, S0474: 1, H0046: 1, H0569: 1, H0024: 1, H0051: 1, H0328: 1, H0030: 1, H0644: 1, H0361: 1, H0040: 1, H0413: 1, S0038: 1, L0770: 1, L0769: 1, L0800: 1, L0644: 1, L0363: 1, L0803: 1, L0804: 1, L0775: 1, L0806: 1, L0805: 1, L0783: 1, L0666: 1, L0665: 1, H0144: 1, H0519: 1, S0146: 1, H0555: 1, S3012:		

518	HCWFI16	826606	528	227 - 373	3125	Glu-27 to Lys-33.	1, L0779: 1, L0731: 1, L0605: 1, L0599: 1, L0603: 1, H0543: 1, H0422: 1 and H0506: 1.
519	HCWFI16	861854	529	227 - 373	3126	Glu-27 to Lys-33.	H0305: 3
520	HCWFK03	562028	530	149 - 280	3127	Ser-32 to Lys-38.	H0305: 3
521	HCWHD30	834724	531	262 - 300	3128		H0305: 2, H0170: 2, H0170: 1, S0003: 1, L0803: 1 and H0651: 1.
522	HCWHT34	692400	532	190 - 288	3129		AR089: 37, AR316: 24, AR060: 11
523	HCWHT52	834618	533	527 - 655	3130	Asp-35 to Ser-43.	H0305: 2
524	HCWKO32	610619	534	146 - 271	3131		L0599: 8, H0170: 3, S0114: 1 and H0305: 1.
525	HCWLE50	584777	535	244 - 342	3132	Glu-27 to Lys-33.	AR089: 2, AR316: 1
526	HCWUF93	752279	536	609 - 806	3133	Ile-54 to Ile-63.	H0305: 4, L0517: 1 and L0748: 1.
527	HCWUW24	799517	537	27 - 146	3134	Leu-4 to Arg-9.	H0305: 1
528	HCYBA32	847042	538	173 - 265	3135		L0779: 1, L0731: 1, L0605: 1, L0599: 1, L0603: 1, H0543: 1, H0422: 1 and H0506: 1.

					L0659: 9, H0486: 5, H0581: 4, H0457: 4, H0424: 4, H0135: 4, L0761: 4, L0748: 4, L0751: 4, H0662: 3, S0045: 3, H0619: 3, H0618: 3, H0052: 3, H0046: 3, H0266: 3, H0617: 3, L0764: 3, L0662: 3, L0766: 3, L0655: 3, L0663: 3, L0664: 3, H0658: 3, S0330: 3, H0521: 3, S0028: 3, L0743: 3, S0434: 3, L0590: 3, L0601: 3, H0653: 3, L0600: 3, H0171: 2, H0657: 2, S0116: 2, S0046: 2, H0549: 2, H0587: 2, T0114: 2, H0013: 2, H0250: 2, H0318: 2, H0251: 2, H0024: 2, H0014: 2, H0687: 2, H0284: 2, S0250: 2, T0006: 2, H0674: 2, L0456: 2, H0087: 2, L0640: 2, L0637: 2, L0646: 2, L0648: 2, L0657: 2, H0648: 2, H0539: 2, S0380: 2, L0439: 2, L0740: 2, L0749: 2, L0779: 2, L0731: 2, L0758: 2, L0596: 2, L0591: 2, L0604: 2, H0542: 2, H0423: 2, H0677: 2, H0624: 1, H0170: 1, T0002: 1, S0040: 1, H0713: 1, S0114: 1, T0049: 1, S0134: 1, H0650: 1, H0656: 1, L0785: 1, S0212: 1, H0255: 1, S0418: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, H0580: 1, H0722: 1, H0550: 1, H0392: 1, H0438: 1, H0574: 1, H0632: 1, H0270: 1, H0635: 1, S0280: 1, H0156: 1, H0253: 1, H0421: 1, L2250: 1, H0085: 1, H0263: 1, H0596: 1, H0086: 1, H0123: 1, S0388: 1, H0375: 1, H0188: 1, H0328: 1, H0688: 1, H0553: 1, H0644: 1, L0142: 1, L0055: 1, H0166: 1,
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529	HDAAV67	637571	539	54 - 170	3136				H0211: 1, H0316: 1, H0591: 1, H0038: 1, H0616: 1, H0116: 1, H0477: 1, H0488: 1, H0268: 1, H0413: 1, S0038: 1, L0351: 1, T0042: 1, H0494: 1, H0396: 1, S0438: 1, H0132: 1, S0150: 1, H0538: 1, H0695: 1, L0502: 1, L0769: 1, L5566: 1, L0667: 1, L0772: 1, L0771: 1, L0521: 1, L0767: 1, L0794: 1, L0774: 1, L0375: 1, L0806: 1, L0658: 1, L0793: 1, S0216: 1, H0723: 1, H0547: 1, H0593: 1, S0126: 1, H0684: 1, H0659: 1, H0672: 1, S0328: 1, S0378: 1, H0522: 1, H0696: 1, S0044: 1, H0555: 1, H0436: 1, S0392: 1, S3012: 1, S0390: 1, S0027: 1, S0032: 1, L0750: 1, L0759: 1, H0445: 1, L0588: 1, L0592: 1, L0362: 1, S0276: 1, H0543: 1 and H0422: 1.		
530	HDABR74	861789	540	419 - 1150	3137	Pro-23 to Arg-28, Pro-40 to Pro-48, Arg-74 to Gln-81, His-124 to Gly-135, Arg-167 to Cys-173, Pro-189 to Ser-195.	L0748: 9, L0794: 8, L0749: 7, L0758: 7, H0539: 6, L0439: 6, L0751: 6, H0556: 5, H0083: 5, H0547: 5, S0418: 4, H0682: 4, H0661: 3, H0370: 3, H0497: 3, H0545: 3, L0764: 3, L0766: 3, L0809: 3, L0665: 3, H0519: 3, H0521: 3, L0747: 3, H0265: 2, H0549: 2, H0046: 2, H0424: 2, H0551: 2, H0494: 2, H0130: 2, L0771: 2, L0662: 2, S0136: 2, L0741: 2, L0743: 2, L0745: 2, L0779: 2, L0590: 2, L0591: 2, L0581: 2, L0601: 2, H0543: 2, H0170: 1, H0341: 1, S0212:	11q13.2-q13.5	133780, 266150, 276903, 276903, 276903, 602078		

531	HDABW45	809086	541	95 - 196	3138			1, S0282: 1, S0420: 1, S0360: 1, S0408: 1, H0151: 1, H0393: 1, H0441: 1, H0455: 1, H0592: 1, H0586: 1, H0491: 1, H0013: 1, H0147: 1, H0036: 1, H0253: 1, T0048: 1, H0620: 1, H0051: 1, S0051: 1, T0010: 1, H0355: 1, H0375: 1, H0290: 1, H0292: 1, H0284: 1, H0328: 1, T0006: 1, H0155: 1, L0475: 1, H0509: 1, S0210: 1, S0002: 1, L0770: 1, L0769: 1, L0772: 1, L0767: 1, L0659: 1, L0542: 1, L0790: 1, L0666: 1, L0664: 1, H0144: 1, L0438: 1, H0658: 1, S012: 1, S0032: 1, L0740: 1, L0777: 1, L0757: 1, H0445: 1, S0026: 1 and H0542: 1.		
532	HDACJ52	608197	542	178 - 312	3139			H0589: 1, H0497: 1 and S0022: 1. L0748: 16, L0769: 12, L0750: 11, H0457: 10, L0758: 10, H0271: 6, L0809: 6, H0539: 6, H0619: 5, H0050: 5, H0551: 5, H0547: 5, L0745: 5, L0770: 4, L0775: 4, L0439: 4, L0755: 4, L0731: 4, L0757: 4, H0445: 4, S0420: 3, H0587: 3, H0599: 3, H0618: 3, H0052: 3, H0620: 3, H0553: 3, S0210: 3, L0764: 3, L0766: 3, L0774: 3, L0776: 3, L0666: 3, H0521: 3, L0740: 3, L0747: 3, L0753: 3, L0759: 3, H0656: 2, S0418: 2, S0046: 2, H0645: 2, H0497: 2, H0333: 2, H0486: 2, H0581: 2, H0545: 2, H0046: 2, H0123: 2, H0428: 2, T0006: 2, L0455: 2, H0038: 2, L0768: 2, L0794: 2, L0804: 2, L0659: 2, L0783: 2.	15q11.2	103581, 146150, 203200, 203200, 227220, 601623, 601800, 601889, 602117

								L0519: 2, L0790: 2, L0663: 2, L0664: 2, H0519: 2, S0126: 2, H0659: 2, H0672: 2, L0744: 2, L0752: 2, L0596: 2, L0592: 2, H0170: 1, H0295: 1, H0583: 1, S0212: 1, H0662: 1, H0638: 1, S0354: 1, S0358: 1, S0376: 1, S0360: 1, H0580: 1, H0151: 1, H0208: 1, H0393: 1, H0351: 1, S0278: 1, H0392: 1, H0438: 1, H0592: 1, H0586: 1, L0622: 1, L0623: 1, H0427: 1, S0280: 1, H0374: 1, H0251: 1, H0178: 1, L0471: 1, H0011: 1, H0012: 1, T0003: 1, H0373: 1, S0051: 1, H0356: 1, H0594: 1, H0179: 1, H0188: 1, H0039: 1, H0673: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, H0264: 1, S0038: 1, H0100: 1, S0448: 1, H0641: 1, H0633: 1, S0144: 1, S0002: 1, L0369: 1, L0520: 1, L0761: 1, L0662: 1, L0767: 1, L0650: 1, L0805: 1, L0661: 1, L0657: 1, L0384: 1, L0647: 1, L0792: 1, S0052: 1, H0520: 1, H0435: 1, H0648: 1, S0152: 1, H0522: 1, S0406: 1, H0436: 1, L0611: 1, S0206: 1, L0742: 1, L0749: 1, L0786: 1, L0777: 1, L0780: 1, S0434: 1, L0603: 1, H0665: 1, H0667: 1, H0136: 1, S0242: 1, H0542: 1 and H0008: 1.					
533	HDCBM09	894702	543	69 - 419	3140	Pro-25 to Phe-31, Gln-99 to Lys-116.	AR089: 19, AR316: 15, AR060: 11 H0637: 1						
534	HDFAB86	637573	544	155 - 274	3141		L0776: 7, L0805: 3, H0013: 2, L0439: 2, L0157: 1, H0562: 1 and L0789: 1.						
535	HDEFIR37	821339	545	357 - 455	3142		AR089: 8 AR316: 7						

536	HDHMB91	637574	546	53 - 148	3143				AR060: 6 H0587: 2, S0001: 1, H0564: 1, H0569: 1, T0010: 1 and L0438: 1. H0565: 1				
537	HDHAA55	799518	547	93 - 245	3144			Pro-33 to His-42.	H0569: 1 and H0521: 1. L0809: 8, H0620: 6, L0769: 6, H0484: 5, H0547: 5, L0439: 5, H0580: 4, H0266: 4, L0803: 4, L0665: 4, H0556: 3, S0408: 3, H0333: 3, H0087: 3, H0529: 3, L0771: 3, L0789: 3, L0740: 3, H0341: 2, H0255: 2, S0420: 2, H0549: 2, H0559: 2, H0421: 2, H0545: 2, H0687: 2, H0623: 2, H0494: 2, H0633: 2, L0800: 2, L0794: 2, L0657: 2, L0659: 2, H0519: 2, H0522: 2, L0748: 2, L0751: 2, L0777: 2, L0758: 2, S0276: 2, H0543: 2, H0624: 1, H0265: 1, S0040: 1, H0713: 1, H0717: 1, S0116: 1, H0483: 1, H0638: 1, S0442: 1, S0358: 1, H0637: 1, S0045: 1, S0046: 1, L0717: 1, H0351: 1, S0278: 1, H0550: 1, H0370: 1, H0391: 1, H0392: 1, H0600: 1, H0592: 1, H0497: 1, H0257: 1, H0013: 1, H0599: 1, T0082: 1, H0253: 1, S0010: 1, T0048: 1, H0318: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0570: 1, H0566: 1, S0051: 1, H0083: 1, H0271: 1, H0288: 1, H0286: 1, H0553: 1, L0055: 1, H0124: 1, H0135: 1, H0063: 1, H0100: 1, L0351: 1, H0625: 1, H0509: 1, H0647: 1, S0144: 1, S0210: 1, L0763: 1, L0371: 1, L0796: 1, L0761: 1, L0646: 1, L0374: 1, L0764: 1				
538	HDHEA33	847044	548	414 - 671	3145			Pro-15 to Cys-32, Pro-48 to Pro-59, Pro-68 to Trp-74.		19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716		



								1, L0773: 1, L0648: 1, L0662: 1, L0363: 1, L0768: 1, L0766: 1, L0388: 1, L0804: 1, L0378: 1, L0805: 1, L0653: 1, L0382: 1, L0666: 1, L0664: 1, S0216: 1, H0144: 1, H0691: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0670: 1, H0651: 1, S0152: 1, H0696: 1, S0406: 1, L0747: 1, L0750: 1, L0756: 1, S0434: 1 and H0665: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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[illegible]

542	HDHIA26	637575	552	146 - 310	3149	Met-1 to Tyr-9.	AR269: 6, AR183: 6, AR262: 6, AR182: 6, AR184: 6, AR175: 6, AR294: 6, AR258: 6, AR290: 5, AR248: 5, AR249: 5, AR061: 5, AR298: 5, AR255: 5, AR218: 5, AR233: 5, AR292: 5, AR179: 4, AR267: 4, AR219: 3, AR260: 3, AR256: 3, AR259: 2 L0439: 3, L0754: 3, H0519: 2, L0748: 2, L0756: 2, L0777: 2, S0040: 1, S0360: 1, H0571: 1, T0067: 1, L0768: 1, L0665: 1, L0438: 1, L0749: 1, H0343: 1 and L0604: 1.		
543	HDHMA71	684448	553	210 - 326	3150		H0571: 1 L0794: 3, L0754: 3, S0126: 2, L0777: 2, L0731: 2, S0376: 1, H0009: 1, H0572: 1, H0014: 1, S6028: 1, H0553: 1, H0509: 1, L0662: 1, L0768: 1, L0766: 1, L0805: 1, L0809: 1, L0790: 1, L0793: 1, L0665: 1, H0547: 1, H0658: 1, H0670: 1, H0660: 1, S0330: 1, H0539: 1, H0696: 1, L0740: 1, L0752: 1 and L0366: 1.		
544	HDLAL94	843583	554	192 - 728	3151	Glu-71 to Asn-83, Asn-125 to Lys-130.	H0560: 2, H0144: 2, L0779: 2, H0225: 1, H0341: 1, H0664: 1, H0574: 1, H0485: 1, H0486: 1, H0013: 1, H0069: 1, H0615: 1, H0591: 1, H0551: 1, H0623: 1, H0509: 1, L0665: 1, H0672: 1, S0380: 1, H0518: 1, H0521: 1, L0756: 1, L0777: 1, L0731: 1 and L0758: 1.		
545	HDPAB86	901851	555	389 - 634	3152	Gln-53 to Asn-58.	L0655: 3, L0662: 2, L0663: 1 and L0758: 1.	17q11.2	154275, 162200,

546	HDPAE80	778068	556	181 - 348	3153	Asn-44 to Ala-50.	<p>2, H0657: 1, H0402: 1, L0055: 1, H0264: 1, S0386: 1, S0002: 1, H0529: 1, L0763: 1, L0637: 1, L0794: 1, L0649: 1, L0650: 1, L0628: 1, L0558: 1, L0659: 1, L0809: 1, L0647: 1, L0666: 1, L0665: 1, H0648: 1, H0539: 1, H0521: 1, L0590: 1 and H0668: 1.</p> <p>L0747: 7, L0754: 6, L0748: 5, L0740: 4, L0749: 4, L0758: 4, L0770: 3, L0768: 3, L0766: 3, L0742: 3, L0751: 3, L0756: 3, L0757: 3, H0170: 2, S0001: 2, H0013: 2, H0083: 2, H0266: 2, L0769: 2, L0662: 2, L0659: 2, L0666: 2, L0665: 2, L0438: 2, L0745: 2, L0777: 2, L0752: 2, L0759: 2, H0445: 2, L0591: 2, L0603: 2, H0543: 2, H0624: 1, H0395: 1, H0556: 1, T0002: 1, H0685: 1, S0040: 1, L0002: 1, H0657: 1, S0418: 1, H0675: 1, H0637: 1, L0717: 1, L0021: 1, H0421: 1, H0620: 1, H0014: 1, H0015: 1, S0388: 1, T0010: 1, S0028: 1, H0687: 1, T0006: 1, S0366: 1, H0090: 1, H0038: 1, H0040: 1, H0087: 1, H0413: 1, T0004: 1, S0386: 1, H0100: 1, H0494: 1, H0560: 1, S0448: 1, S0150: 1, H0633: 1, H0646: 1, S0426: 1, H0529: 1, L0763: 1, L0772: 1, L0764: 1, L0773: 1, L0775: 1, L0651: 1, L0378: 1, L0653: 1, L0776: 1, L0655: 1, L0542: 1, L0384: 1, L0809: 1, L0532: 1, L0664: 1, S0374: 1, H0547: 1, H0711: 1, H0660: 1, S0328: 1, S0330: 1, H0521: 1.</p>		162200, 182138, 239100, 600881, 601954, 602403
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547	HDPAQ86	612855	557	90 - 179	3154	1, S0027: 1, L0750: 1, L0779: 1, H0423: 1 and H0422: 1. AR089: 13, AR316: 9, AR060: 5 S0222: 1, H0486: 1, H0539: 1 and H0521: 1.		
548	HDPBD56	791784	558	371 - 466	3155	L0748: 24, L0766: 11, L0745: 9, L0754: 7, H0556: 6, H0580: 6, H0521: 4, L0747: 4, L0755: 4, L0596: 4, L0771: 3, L0776: 3, S0328: 3, L0439: 3, L0749: 3, H0574: 2, H0014: 2, L0804: 2, H0690: 2, L0746: 2, L0758: 2, H0445: 2, H0265: 1, H0220: 1, S0342: 1, S0114: 1, H0657: 1, H0656: 1, L0785: 1, H0663: 1, H0664: 1, H0125: 1, S0418: 1, S0360: 1, S0046: 1, H0611: 1, H0409: 1, H0497: 1, H0485: 1, H0486: 1, L0586: 1, T0114: 1, H0156: 1, H0599: 1, H0575: 1, H0581: 1, H0597: 1, H0046: 1, H0050: 1, H0673: 1, H0674: 1, S0036: 1, H0040: 1, T0042: 1, H0625: 1, L0770: 1, L0769: 1, L0761: 1, L0667: 1, L0794: 1, L0803: 1, L0774: 1, L0783: 1, L0789: 1, L0792: 1, L0665: 1, S0216: 1, H0547: 1, H0666: 1, H0672: 1, H0518: 1, H0522: 1, S0242: 1 and H0543: 1.		
549	HDPBN48	838593	559	126 - 227	3156	AR312: 7, AR313: 6, AR213: 6, AR263: 6, AR309: 5, AR053: 5, AR310: 5, AR183: 5, AR241: 4, AR274: 4, AR282: 4, AR052: 4, AR096: 4, AR299: 4, AR184: 4, AR089: 4,		

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550	HDPCG79	691350	560	240 - 314	3157				H0031: 2, H0543: 2, L0459: 1, H0306: 1, L0717: 1, H0635: 1, H0674: 1, H0634: 1, H0509: 1, L0772: 1, L0776: 1, L0666: 1, L0663: 1 and H0521: 1.				
551	HDPCV29	567228	561	95 - 226	3158	Met-1 to Gln-9, Ile-12 to Cys-20, Leu-29 to Ser-42.			H0521: 1				
552	HDPDA36	827283	562	305 - 403	3159				H0521: 1				

553	HDPDC59	872451	563	320 - 490	3160	Trp-17 to Thr-26, Leu-28 to Ser-33.	AR194: 12, AR281: 10, AR205: 9, AR202: 9, AR310: 8, AR206: 8, AR263: 8, AR315: 8, AR280: 8, AR243: 8, AR244: 8, AR039: 8, AR198: 8, AR289: 7, AR246: 7, AR282: 7, AR265: 7, AR266: 7, AR192: 6, AR283: 6, AR033: 6, AR284: 6, AR184: 6, AR296: 6, AR285: 6, AR241: 6, AR251: 6, AR314: 6, AR271: 6, AR299: 5, AR204: 5, AR269: 5, AR270: 5, AR182: 5, AR286: 5, AR312: 5, AR274: 5, AR295: 5, AR273: 5, AR291: 5, AR277: 5, AR298: 5, AR089: 5, AR275: 5, AR316: 5, AR213: 5, AR268: 4, AR055: 4, AR292: 4, AR053: 4, AR300: 4, AR309: 4, AR247: 4, AR227: 4, AR313: 4, AR183: 4, AR052: 4, AR096: 4, AR232: 4, AR294: 4, AR229: 4, AR238: 4, AR290: 4, AR267: 3, AR248: 3, AR293: 3, AR226: 3, AR060: 3, AR234: 3, AR186: 3, AR061: 3, AR231: 3, AR177: 3, AR240: 3, AR104: 3, AR185: 2, AR233: 2, AR237: 2, AR175: 2, AR253: 2,		
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554	HDPFG13	637580	564	170 - 361	3161	Thr-49 to Ala-55.	AR258: 1, AR256: 1 H0521: 2, L0608: 2, H0135: 1 and L0789: 1.  L0752: 6, L0748: 3, L0756: 3, H0657: 2, L0764: 2, S0404: 2, L0740: 2, L0747: 2, L0759: 2, L0593: 2, H0671: 1, S0418: 1, S0358: 1, S0007: 1, H0619: 1, H0441: 1, H0392: 1, H0586: 1, L0021: 1, H0553: 1, H0032: 1, H0124: 1, H0634: 1, H0551: 1, H0412: 1, S0002: 1, L0796: 1, L0761: 1, L0646: 1, L0794: 1, L0803: 1, L0775: 1, L0655: 1, L0659: 1, L0783: 1, L0664: 1, L0665: 1, H0519: 1, H0539: 1, H0521: 1, L0754: 1, L0779: 1, L0777: 1, L0755: 1, L0595: 1, H0665: 1, H0542: 1 and H0543: 1.		
555	HDPFK27	825903	565	283 - 387	3162		S0010: 1, L0527: 1, L0518: 1, H0521: 1 and L0605: 1.		
556	HDPFZ05	824390	566	172 - 300	3163		H0521: 2, H0201: 1 and L0745: 1.		
557	HDPGA84	833050	567	17 - 319	3164	Lys-25 to Gly-30, Tyr-48 to Phe-59.	AR104: 45, AR298: 31, AR186: 25, AR227: 21, AR182: 21, AR285: 21, AR089: 21, AR060: 20, AR295: 19, AR316: 14, AR284: 14, AR267: 14, AR184: 13, AR226: 13, AR292: 13, AR232: 12, AR206: 12, AR286: 11, AR234: 10, AR229: 10, AR185: 10, AR233: 10, AR198: 9, AR290: 9, AR268: 9, AR061: 8, AR231: 8, AR270: 7, AR175: 7, AR300: 6, AR204: 6, AR291: 6,		



558	HDPGR80	844812	568	1690 - 1815	3165	Trp-1 to Ser-15.	AR205: 6, AR275: 5, AR237: 5, AR299: 5, AR179: 4, AR266: 4, AR258: 4, AR274: 4, AR055: 4, AR202: 4, AR219: 3, AR240: 3, AR248: 3, AR259: 3, AR293: 3, AR247: 3, AR282: 3, AR294: 2, AR218: 2, AR310: 2, AR263: 2, AR241: 2, AR183: 2, AR033: 1, AR238: 1, AR194: 1, AR256: 1, AR312: 1, AR289: 1 L0754: 8, L0803: 6, L0748: 4, L0766: 3, S0376: 2, S0444: 2, S0360: 2, H0529: 2, L0663: 2, H0445: 2, L0603: 2, H0543: 2, H0657: 1, H0638: 1, S0420: 1, H0580: 1, H0393: 1, S0300: 1, L0717: 1, H0431: 1, H0643: 1, H0156: 1, H0581: 1, H0251: 1, H0014: 1, S0051: 1, S0003: 1, H0644: 1, H0090: 1, H0040: 1, S0472: 1, S0426: 1, L0598: 1, L0800: 1, L0641: 1, L0771: 1, L0521: 1, L0662: 1, L0768: 1, L0775: 1, L0805: 1, L0606: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0519: 1, S0122: 1, H0658: 1, H0672: 1, H0539: 1, S0378: 1, H0521: 1, L0439: 1, L0752: 1, L0759: 1 and H0423: 1.	15	
							AR089: 11, AR316: 7, AR060: 4 H0046: 13, H0521: 8, L0748: 7, L0794: 6, L0803: 6, S0002: 5, L0747: 5, H0556: 4, L0659:		

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559	HDPGU14	832543	569	1202 - 1213	3166		4, L0438: 4, L0439: 4, L0752: 4, S0360: 3, H0013: 3, H0040: 3, H0529: 3, L0770: 3, L0764: 3, L0666: 3, L0663: 3, H0144: 3, H0547: 3, H0171: 2, H0657: 2, H0638: 2, H0581: 2, H0083: 2, H0068: 2, H0264: 2, L0662: 2, L0768: 2, L0774: 2, L0791: 2, L0665: 2, L0740: 2, L0749: 2, L0750: 2, L0731: 2, L0758: 2, L0581: 2, S0218: 1, H0656: 1, S0212: 1, S0358: 1, H0580: 1, S0046: 1, H0370: 1, H0586: 1, H0587: 1, H0486: 1, L0021: 1, H0004: 1, H0052: 1, H0263: 1, L0471: 1, H0594: 1, H0266: 1, H0271: 1, H0622: 1, H0031: 1, H0553: 1, H0135: 1, H0591: 1, H0634: 1, H0616: 1, H0412: 1, H0413: 1, H0056: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0130: 1, S0422: 1, S0426: 1, L0763: 1, L0769: 1, L0637: 1, L0761: 1, L0767: 1, L0364: 1, L0766: 1, L0388: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0661: 1, L0518: 1, L0809: 1, L0530: 1, S0053: 1, H0519: 1, S0126: 1, H0648: 1, H0710: 1, H0518: 1, H0522: 1, S0146: 1, H0555: 1, L0753: 1, L0755: 1, L0759: 1, H0445: 1, S0436: 1, L0599: 1, S0242: 1, H0423: 1 and H0422: 1.	8q12	181030
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560	HDPGX09	580818	570	90 - 182	3167		<p>H0662: 1, H0402: 1, H0125: 1, S0418: 1, S0468: 1, S0132: 1, S0300: 1, H0437: 1, H0441: 1, H0455: 1, H0438: 1, H0331: 1, H0270: 1, T0040: 1, H0427: 1, H0156: 1, H0004: 1, S0010: 1, H0705: 1, S0049: 1, H0545: 1, H0046: 1, H0457: 1, H0050: 1, H0014: 1, H0015: 1, H0051: 1, H0071: 1, H0083: 1, H0355: 1, H0594: 1, H0266: 1, H0416: 1, S0250: 1, H0688: 1, T0023: 1, H0031: 1, H0169: 1, H0316: 1, H0598: 1, H0551: 1, H0488: 1, H0433: 1, H0268: 1, H0413: 1, H0059: 1, S0112: 1, L0351: 1, L0564: 1, T0041: 1, T0042: 1, S0464: 1, L0065: 1, H0509: 1, H0132: 1, H0130: 1, H0646: 1, UNKWN: 1, L0762: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0667: 1, L0800: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1, L0549: 1, L0774: 1, L0652: 1, L0776: 1, L0655: 1, L0606: 1, L0636: 1, L0546: 1, L0382: 1, H0693: 1, H0593: 1, S0122: 1, H0660: 1, H0666: 1, H0648: 1, S0328: 1, S0380: 1, H0710: 1, H0518: 1, S0013: 1, H0696: 1, H0436: 1, S0392: 1, H0540: 1, S0028: 1, L0740: 1, S0260: 1, S0434: 1, L0595: 1, L0366: 1, H0668: 1, S0276: 1, H0422: 1, S0424: 1 and H0506: 1.</p> <p>L0752: 6, L0747: 4, S0007: 3, L0776: 3, L0439: 3, H0686: 2, T0039: 2, H0052: 2, H0009: 2, H0068: 2, L0769: 2, L0809:</p>				
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561	HDPIE44	899328	571	169 - 351	3168				AR263: 6, AR265: 3, AR184: 3, AR183: 3, AR269: 3, AR313: 2, AR312: 2, AR270: 2, AR268: 2, AR298: 2, AR296: 2, AR292: 2, AR060: 2, AR052: 2, AR291: 2, AR198: 2, AR192: 2, AR286: 2, AR267: 2, AR295: 2, AR290: 2, AR316: 2, AR289: 1, AR089: 1, AR231: 1, AR213: 1, AR247: 1, AR282: 1, AR284: 1, AR096: 1, AR293: 1, AR053: 1, AR033: 1, AR238: 1, AR258: 1, AR182: 1, AR177: 1, AR310: 1 S0358: 3, H0622: 2, H0553: 2, H0090: 2, L0769: 2, L0794:		

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562	HDPIE73	886158	572	212 - 328	3169			AR089: 3, AR316: 2, AR060: 2 H0521: 1			
563	HDPIF35	826781	573	102 - 167	3170		Val-1 to Ser-13.	H0521: 1	11		
564	HDPIF65	847047	574	38 - 211	3171			H0521: 1			
565	HDPIH25	740749	575	181 - 336	3172		Pro-21 to Ser-28.	H0457: 6, L0770: 4, L0775: 3, L0747: 3, L0662: 2, L0663: 2, H0521: 2, L0751: 2, L0731: 2, L0758: 2, H0445: 2, T0002: 1, H0657: 1, H0255: 1, H0402: 1, H0638: 1, S0408: 1, H0619: 1, S0222: 1, H0370: 1, H0333: 1, H0101: 1, H0575: 1, H0052: 1, H0546: 1, H0563: 1, H0050: 1, H0620: 1, S0051: 1, H0622: 1, H0644: 1, H0617: 1, H0606: 1, H0077: 1, S0002: 1, L0638: 1, L0796: 1, L0761: 1, L0646: 1, L0764: 1, L0794: 1, L0766: 1, L0806: 1, L0657: 1, L0665: 1, H0593: 1, H0670: 1, S0328: 1, H0539: 1, H0522: 1, H0696: 1, H0555: 1, S3012: 1, L0741: 1, L0439: 1, L0779: 1, L0780: 1, L0603: 1 and H0543: 1.			
566	HDPIY31	886159	576	268 - 375	3173			AR214: 26, AR263: 25, AR224: 21, AR222: 20, AR264: 20, AR223: 19,	20q13.31- 20q13.33	261680	

[illegible]





567	HDPJH72	847048	577	603 - 1163	3174	Pro-6 to Pro-11, Ala-43 to Gly-50, Glu-76 to Cys-92, Ser-101 to Trp-110, Pro-163 to Ser-169.	H0559: 1, H0013: 1, H0069: 1, H0156: 1, H0590: 1, S0346: 1, H0085: 1, H0544: 1, H0545: 1, H0439: 1, H0150: 1, H0041: 1, S0388: 1, S0051: 1, T0010: 1, H0271: 1, H0416: 1, H0188: 1, H0288: 1, S0022: 1, T0006: 1, H0213: 1, H0628: 1, H0617: 1, H0135: 1, H0087: 1, H0551: 1, H0477: 1, H0059: 1, S0038: 1, L0435: 1, T0042: 1, H0494: 1, S0344: 1, S0426: 1, L0640: 1, L0769: 1, L0638: 1, L0642: 1, L0764: 1, L0662: 1, L0794: 1, L0803: 1, L0774: 1, L0375: 1, L0806: 1, L0805: 1, L0655: 1, L0493: 1, L0659: 1, L0809: 1, L0789: 1, H0519: 1, S0126: 1, H0690: 1, H0682: 1, S0330: 1, H0539: 1, H0522: 1, S0037: 1, L0751: 1, L0754: 1, L0746: 1, L0749: 1, L0786: 1, H0445: 1, L0596: 1, H0542: 1 and H0543: 1.	22q12.3-q13.2	138981, 188826, 190040, 190040, 190040, 600850, 601669
							AR060: 3, AR316: 2, AR089: 1 L0755: 22, H0521: 14, L0766: 9, H0271: 7, L0659: 7, L0751: 7, L0757: 7, L0771: 6, L0806: 5, L0665: 5, H0580: 4, H0492: 4, H0646: 4, L0774: 4, L0740: 4, L0758: 4, L0601: 4, S0132: 3, H0551: 3, L0769: 3, L0794: 3, L0776: 3, L0789: 3, H0593: 3, H0435: 3, L0777: 3, L0731: 3, S0212: 2, S0360: 2, S0278: 2, H0641: 2, L0770: 2, L0764: 2, L0773: 2, L0648: 2, L0804: 2, L0775: 2, S0152: 2, H0522: 2, L0747: 2, L0750: 2,		

									L0779: 2, S0436: 2, L0604: 2, H0653: 2, H0265: 1, H0556: 1, H0141: 1, H0585: 1, S0180: 1, H0661: 1, H0638: 1, S0418: 1, S0420: 1, S0442: 1, S0444: 1, H0728: 1, H0735: 1, S0045: 1, S0046: 1, H0550: 1, H0587: 1, H0497: 1, H0559: 1, H0069: 1, H0253: 1, T0048: 1, H0581: 1, H0744: 1, H0544: 1, H0046: 1, H0266: 1, H0179: 1, H0416: 1, H0286: 1, H0252: 1, H0039: 1, H0553: 1, L0055: 1, H0634: 1, H0477: 1, H0059: 1, H0494: 1, S0210: 1, L0640: 1, L0763: 1, L0637: 1, L5565: 1, L0761: 1, L0772: 1, L0800: 1, L0643: 1, L0553: 1, L0768: 1, L0803: 1, L0653: 1, L0382: 1, L0368: 1, L0793: 1, L0664: 1, L0565: 1, S0126: 1, H0683: 1, H0518: 1, L0716: 1, H0528: 1, S0406: 1, S3014: 1, S0028: 1, S0032: 1, L0746: 1, L0759: 1, L0361: 1, L0097: 1, S0192: 1, S0194: 1 and H0542: 1.				
568	HDPJV53	815655	578	145 - 318	3175				L0803: 1 and H0521: 1.				
569	HDPJV75	745376	579	382 - 453	3176	Glu-1 to Val-6.			L0754: 3, L0777: 3, L0759: 3, H0014: 2, H0580: 1, H0440: 1, H0004: 1, H0546: 1, H0375: 1, H0553: 1, H0628: 1, H0316: 1, H0658: 1, H0670: 1, S0330: 1, H0521: 1, H0522: 1, L0755: 1 and S0242: 1.	3q28	165500, 600700		
570	HDPKC55	822869	580	102 - 1463	3177	Asp-26 to Gly-32, Ala-81 to Gln-90, Lys-97 to Trp-104, Asn-157 to Lys-167, Ser-247 to Leu-256.			H0266: 2, L0662: 2, H0521: 2, L0759: 2, H0032: 1, L0659: 1 and L0748: 1.				
571	HDPKD16	897304	581	274 - 339	3178	Met-1 to Leu-10.			H0521: 4, H0553: 2, H0556:				

572	HDPMCS2	847049	582	214 - 450	3179	Met-29 to Tyr-39.	1, H0392: 1, H0231: 1, H0628: 1, H0674: 1, H0124: 1, H0494: 1, H0625: 1, L0369: 1, L0772: 1, L0643: 1, S0216: 1, S0126: 1, S0332: 1, L0747: 1, L0731: 1, H0543: 1 and S0424: 1. AR252: 237, AR253: 67, AR254: 21, AR250: 14, AR195: 12, AR271: 11, AR199: 10, AR312: 9, AR197: 9, AR268: 8, AR245: 8, AR246: 8, AR192: 7, AR242: 7, AR096: 7, AR229: 7, AR173: 7, AR198: 6, AR207: 6, AR308: 6, AR169: 5, AR290: 5, AR039: 5, AR313: 5, AR053: 5, AR272: 5, AR269: 5, AR168: 5, AR212: 5, AR205: 5, AR177: 5, AR200: 5, AR162: 4, AR270: 4, AR214: 4, AR161: 4, AR222: 4, AR163: 4, AR190: 4, AR217: 4, AR201: 4, AR223: 4, AR267: 4, AR180: 4, AR183: 4, AR189: 4, AR171: 4, AR164: 4, AR170: 4, AR243: 4, AR204: 4, AR311: 4, AR193: 4, AR165: 4, AR263: 4, AR309: 4, AR213: 4, AR224: 4, AR166: 4, AR188: 4, AR178: 4, AR316: 4, AR172: 3, AR300: 3, AR275: 3, AR238: 3, AR185: 3, AR215: 3,	13q32-34	153900, 156600, 180381, 227500, 227600, 232000, 238970, 256731, 602085
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573	HDPML04	822851	583	98 - 196	3180	Tyr-26 to Glu-32.	H0542: 2, H0402: 1, H0081: 1 and H0522: 1.							
574	HDPMM22	683899	584	332 - 439	3181	Lys-16 to Arg-23.	L0751: 2 and H0522: 1.							

575	HDPNC21	839263	585	40 - 246	3182	Met-20 to Leu-38, Asn-44 to Arg-49, Arg-60 to Pro-68.	AR313: 41, AR281: 36, AR089: 26, AR315: 26, AR280: 26, AR198: 25, AR299: 25, AR263: 24, AR194: 24, AR202: 23, AR096: 23, AR241: 23, AR247: 22, AR314: 22, AR265: 22, AR218: 21, AR183: 21, AR240: 20, AR033: 20, AR258: 20, AR238: 20, AR300: 19, AR213: 19, AR312: 19, AR246: 19, AR310: 19, AR269: 19, AR219: 19, AR182: 19, AR293: 19, AR205: 19, AR177: 18, AR283: 18, AR270: 18, AR282: 18, AR229: 18, AR053: 17, AR244: 17, AR316: 17, AR192: 17, AR289: 17, AR226: 17, AR296: 17, AR285: 16, AR268: 16, AR295: 16, AR292: 16, AR206: 16, AR266: 15, AR259: 15, AR243: 14, AR284: 14, AR184: 14, AR286: 14, AR277: 14, AR291: 14, AR256: 14, AR185: 14, AR294: 13, AR060: 13, AR052: 13, AR175: 13, AR267: 13, AR039: 13, AR104: 13, AR309: 12, AR204: 12, AR249: 12, AR290: 12, AR233: 12, AR234: 12, AR251: 12, AR232: 12, AR231: 11, AR227: 11, AR271: 11, AR237: 10, AR298: 10, AR055: 9, AR248: 9,		
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576	HDPN126	852338	586	422 - 574	3183				AR060: 2, AR316: 1, AR089: 1			
577	HDPOD73	876202	587	446 - 472	3184				H0521: 3, L0759: 2, H0638: 1, S0356: 1, S0360: 1, L0021: 1 and H0522: 1.			
578	HDPOT33	892319	588	691 - 984	3185	Ala-50 to Pro-55, Leu-62 to Glu-69, Ser-81 to His-88.			H0521: 20, L0648: 6, L0783: 6, H0586: 5, H0587: 5, L0665: 4, S0330: 4, H0522: 4, H0242: 3, H0379: 3, L0662: 3, L0809: 3, H0593: 3, L0748: 3, H0661: 2, H0602: 2, H0510: 2, H0487: 2, H0641: 2, L0649: 2, L0659: 2, L0790: 2, S0328: 2, S0406: 2, L0539: 1, S0358: 1, S0222: 1, H0486: 1, H0013: 1, L0021: 1, H0081: 1, H0050: 1, H0355: 1, H0375: 1, H0674: 1, H0040: 1, H0380: 1, H0264: 1, H0488: 1, T0041: 1, H0494: 1, S0370: 1	9p13	230400, 250250	

579	HDPPB70	874027	589	257 - 1189	3186	Ser-44 to Ser-64, Glu-84 to Ile-90, Pro-93 to Gly-108.	1, S0448: 1, H0647: 1, H0649: 1, L0761: 1, L0642: 1, L0764: 1, L0376: 1, L0806: 1, L0518: 1, L0789: 1, L0666: 1, L0663: 1, H0672: 1, H0696: 1, H0436: 1, H0478: 1, L0749: 1, H0445: 1 and S0446: 1. AR184: 4, AR275: 4, AR183: 3, AR296: 3, AR282: 3, AR270: 3, AR268: 3, AR053: 3, AR060: 3, AR291: 2, AR182: 2, AR089: 2, AR249: 2, AR273: 2, AR290: 2, AR247: 2, AR294: 2, AR289: 2, AR269: 2, AR267: 2, AR309: 2, AR175: 1, AR186: 1, AR039: 1, AR284: 1, AR292: 1, AR052: 1, AR185: 1, AR205: 1, AR286: 1, AR096: 1, AR266: 1, AR316: 1, AR298: 1 S0410: 5, S0358: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, H0638: 2, S0354: 2, S0408: 2, H0580: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, S0376: 1, H0586: 1, H0485: 1, H0013: 1, S0003: 1, H0039: 1, T0006: 1, S0386: 1, H0560: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and H0653: 1. H0522: 1	4q13.3-q21.3	104500, 125490, 163890, 173910, 252500, 252500
580	HDPPC19	561937	590	271 - 465	3187				

581	HDPPE05	809109	591	303 - 353	3188		L0794: 10, S0040: 1, H0583: 1, H0305: 1, H0069: 1, H0545: 1, L0471: 1, H0428: 1, L0803: 1, L0790: 1, L0666: 1, S0428: 1, S0330: 1, H0521: 1, H0522: 1, L0750: 1 and S0106: 1.		
582	HDP5A70	722216	592	252 - 302	3189		AR060: 2, AR316: 1, AR089: 1 H0521: 5, S0003: 4, H0494: 3, L0646: 3, L0803: 3, L0659: 3, S0040: 2, H0716: 2, S0418: 2, S0356: 2, H0013: 2, H0032: 2, S0002: 2, L0770: 2, L0804: 2, L0790: 2, H0522: 2, L0731: 2, S0116: 1, H0663: 1, H0662: 1, H0638: 1, S0376: 1, S0360: 1, H0580: 1, L0717: 1, H0587: 1, H0250: 1, H0427: 1, L0105: 1, H0375: 1, S0214: 1, H0622: 1, H0644: 1, H0591: 1, H0040: 1, H0646: 1, S0426: 1, H0529: 1, L0662: 1, L0806: 1, L0382: 1, L0666: 1, L0665: 1, S0126: 1, H0651: 1, S0330: 1, H0539: 1, H0518: 1, H0436: 1, S0028: 1, L0743: 1, L0747: 1, L0780: 1, L0605: 1 and S0192: 1.	6q22	120110, 121014, 156225, 164200, 164200, 601410, 601757
583	HDPSS56	847051	593	186 - 281	3190		L0731: 9, L0754: 6, S0422: 5, L0805: 5, L0756: 5, L0766: 4, S0406: 4, H0436: 4, L0439: 4, S0376: 3, S0444: 3, L0771: 3, L0794: 3, L0803: 3, L0655: 3, L0665: 3, H0521: 3, L0755: 3, S0003: 2, L0763: 2, L0776: 2, L0657: 2, L0515: 2, L0438: 2, H0547: 2, H0696: 2, L0740: 2, L0779: 2, L0757: 2, L0758: 2, L0591: 2, L0361: 2, H0170: 1, T0002: 1, S0114: 1, H0583: 1, S0212: 1, H0125: 1, S0348: 1.		



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584	HDPSZ07	784681	594	244 - 363	3191				AR060: 2, AR316: 1 S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.				
585	HDPSZ07	856574	595	244 - 363	3192				AR060: 2, AR316: 1 S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.				
586	HDPSZ07	897740	596	244 - 363	3193				AR060: 2, AR316: 1 S0114: 1, S0134: 1, H0589: 1, H0521: 1 and H0543: 1.				
587	HDPTI49	847052	597	182 - 289	3194	Ser-25 to Glu-30.			H0305: 3, S0010: 1 and H0521: 1.				
588	HDPTP22	826725	598	236 - 349	3195				AR060: 1, AR316: 1 S0426: 2, H0550: 1, S0388: 1, H0521: 1 and S0031: 1.				
589	HDPYE25	636058	599	301 - 372	3196				AR089: 20, AR316: 20, AR060: 19 L0717: 1, H0052: 1, S0051: 1, S0112: 1, L0764: 1 and H0521: 1.				
590	HDQGD06	838076	600	469 - 1401	3197	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127,			AR251:1194, AR273:1034, AR053: 905, AR265: 902, AR309: 688, AR219: 668, AR310: 662, AR096: 638,	11			

Thr-174 to Arg-179, Pro-249 to Ser-254.	AR218: 626, AR263: 613, AR243: 579, AR240: 512, AR312: 479, AR249: 463, AR213: 448, AR052: 365, AR246: 362, AR269: 334, AR104: 331, AR280: 329, AR274: 326, AR268: 324, AR253: 323, AR290: 322, AR275: 314, AR248: 308, AR175: 286, AR198: 268, AR281: 260, AR270: 252, AR271: 248, AR179: 247, AR313: 246, AR205: 238, AR315: 237, AR177: 236, AR183: 232, AR185: 221, AR314: 218, AR186: 214, AR184: 212, AR300: 190, AR039: 183, AR033: 172, AR299: 166, AR192: 161, AR194: 151, AR267: 149, AR256: 145, AR204: 141, AR247: 140, AR234: 136, AR244: 133, AR266: 128, AR241: 121, AR316: 120, AR206: 119, AR282: 119, AR182: 113, AR229: 104, AR284: 102, AR289: 94, AR237: 76, AR285: 74, AR202: 72, AR231: 68, AR291: 65, AR238: 65, AR292: 55, AR277: 54, AR258: 53, AR232: 53, AR283: 52, AR296: 45, AR286: 43, AR298: 41, AR295: 40, AR259: 40, AR055: 38, AR226: 36, AR293: 33, AR089: 32, AR294: 32, AR233: 31, AR061: 26, AR227: 19, AR060: 19
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591	HDQGD06	852673	601	469 - 1401	3198	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127, Thr-174 to Arg-179, Pro-249 to Ser-254.	L0766: 10, H0521: 10, H0522: 5, L0666: 4, L0663: 4, H0580: 2, L0761: 2, L0659: 2, L0779: 2, H0255: 1, S0222: 1, H0392: 1, H0039: 1, H0622: 1, H0641: 1, S0144: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.			
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592	HDQGD06	881280	602	470 - 1579	3199	Asn-16 to Tyr-21, Glu-55 to His-76, Tyr-109 to Tyr-118, Ser-122 to Ser-127, Arg-175 to Asp-181, Glu-325 to Gln-330.	AR241: 121, AR316: 120, AR206: 119, AR282: 119, AR182: 113, AR229: 104, AR284: 102, AR289: 94, AR237: 76, AR285: 74, AR202: 72, AR231: 68, AR291: 65, AR238: 65, AR292: 55, AR277: 54, AR258: 53, AR232: 53, AR283: 52, AR296: 45, AR286: 43, AR298: 41, AR295: 40, AR259: 40, AR055: 38, AR226: 36, AR293: 33, AR089: 32, AR294: 32, AR233: 31, AR061: 26, AR227: 19, AR060: 19 L0766: 10, H0521: 10, H0522: 5, L0666: 4, L0663: 4, H0580: 2, L0761: 2, L0659: 2, L0779: 2, H0255: 1, S0222: 1, H0392: 1, H0039: 1, H0622: 1, H0641: 1, S0144: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.			
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						AR274: 326, AR268: 324, AR253: 323, AR290: 322, AR275: 314, AR248: 308, AR175: 286, AR198: 268, AR281: 260, AR270: 252, AR271: 248, AR179: 247, AR313: 246, AR205: 238, AR315: 237, AR177: 236, AR183: 232, AR185: 221, AR314: 218, AR186: 214, AR184: 212, AR300: 190, AR039: 183, AR033: 172, AR299: 166, AR192: 161, AR194: 151, AR267: 149, AR256: 145, AR204: 141, AR247: 140, AR234: 136, AR244: 133, AR266: 128, AR241: 121, AR316: 120, AR206: 119, AR282: 119, AR182: 113, AR229: 104, AR284: 102, AR289: 94, AR237: 76, AR285: 74, AR202: 72, AR231: 68, AR291: 65, AR238: 65, AR292: 55, AR277: 54, AR258: 53, AR232: 53, AR283: 52, AR296: 45, AR286: 43, AR298: 41, AR295: 40, AR259: 40, AR055: 38, AR226: 36, AR293: 33, AR089: 32, AR294: 32, AR233: 31, AR061: 26, AR227: 19, AR060: 19  L0766: 10, H0521: 10, H0522: 5, L0666: 4, L0663: 4, H0580: 2, L0761: 2, L0659: 2, L0779: 2, H0255: 1, S0222: 1, H0392: 1, H0039: 1, H0622: 1, H0641: 1, S0144: 1, S0002: 1.
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593	HDQGN08	840588	603	96 - 509	3200		L0762: 1, L0763: 1, L0770: 1, L0772: 1, L0642: 1, L0645: 1, L0662: 1, L0806: 1, L0783: 1, L0791: 1, L0792: 1, H0702: 1, H0689: 1, H0683: 1, H0696: 1, H0555: 1, H0667: 1, S0192: 1 and S0242: 1.		
							AR089: 18, AR241: 15, AR313: 12, AR316: 11, AR060: 9, AR265: 8, AR229: 8, AR192: 8, AR183: 7, AR269: 7, AR258: 7, AR184: 7, AR204: 7, AR263: 6, AR247: 6, AR177: 6, AR219: 6, AR293: 6, AR226: 6, AR218: 6, AR240: 6, AR198: 6, AR039: 6, AR299: 6, AR270: 6, AR312: 5, AR238: 5, AR182: 5, AR300: 5, AR296: 5, AR096: 5, AR194: 5, AR314: 5, AR185: 5, AR175: 4, AR259: 4, AR248: 4, AR310: 4, AR275: 4, AR285: 4, AR268: 4, AR246: 4, AR315: 4, AR249: 4, AR243: 4, AR234: 4, AR233: 4, AR267: 3, AR237: 3, AR244: 3, AR206: 3, AR053: 3, AR271: 3, AR290: 3, AR273: 3, AR291: 3, AR186: 3, AR282: 3, AR227: 3, AR284: 3, AR274: 3, AR277: 3, AR292: 3, AR231: 3, AR104: 3, AR294: 3,		

594	HDQGO62	837353	604	728 - 760	3201			AR286: 3, AR289: 3, AR052: 3, AR205: 2, AR179: 2, AR280: 2, AR298: 2, AR232: 2, AR251: 2, AR295: 2, AR213: 2, AR033: 2, AR253: 2, AR256: 2, AR309: 2, AR202: 2, AR281: 2, AR266: 1 H0581: 1, L0794: 1, H0547: 1, H0521: 1 and L0747: 1.	14q21.1-q21.3	182600, 232700, 602086
								AR089: 34, AR316: 33, AR060: 32 L0749: 6, L0666: 4, L0770: 3, L0769: 3, L0740: 3, L0747: 3, L0777: 3, L0758: 3, H0484: 2, H0421: 2, H0150: 2, S0388: 2, H0428: 2, H0673: 2, H0100: 2, H0529: 2, L0774: 2, L0775: 2, H0696: 2, L0751: 2, L0752: 2, L0759: 2, L0599: 2, L0608: 2, H0306: 1, H0305: 1, S0418: 1, S0356: 1, S0358: 1, S0444: 1, S0408: 1, H0339: 1, H0550: 1, S0222: 1, H0431: 1, H0404: 1, T0115: 1, H0570: 1, H0510: 1, H0687: 1, H0252: 1, H0708: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0413: 1, H0561: 1, S0438: 1, S0440: 1, S0422: 1, L0767: 1, L0803: 1, L0652: 1, L0776: 1, L0655: 1, L0809: 1, L0647: 1, H0689: 1, H0690: 1, H0659: 1, S0378: 1, H0521: 1, H0555: 1, H0436: 1, L0743: 1, L0439: 1, L0754: 1, L0485: 1, S0026: 1, H0665: 1 and S0424: 1.		
595	HDQPM16	886161	605	473 - 592	3202	Ser-32 to Ser-39.		AR089: 45, AR316: 43, AR060: 41		

	H0521: 29, S0474: 19, L0731: 15, L0748: 13, H0046: 12, L0750: 12, L0752: 11, L0659: 10, L0664: 10, H0694: 10, L0439: 10, H0556: 9, L0666: 9, L0747: 9, H0497: 8, L0655: 8, H0457: 7, H0423: 7, S0444: 6, S0360: 6, H0581: 6, H0179: 6, L0749: 6, S0354: 5, H0013: 5, H0050: 5, H0090: 5, H0529: 5, L0771: 5, L0777: 5, L0755: 5, H0543: 5, H0657: 4, S0442: 4, S0408: 4, H0722: 4, H0620: 4, S0003: 4, L0769: 4, L0774: 4, L0783: 4, H0144: 4, H0547: 4, S0406: 4, S0027: 4, L0740: 4, L0756: 4, S0434: 4, S0436: 4, L0599: 4, H0422: 4, H0656: 3, H0580: 3, S0046: 3, H0411: 3, H0409: 3, H0586: 3, H0587: 3, H0331: 3, H0427: 3, H0599: 3, H0012: 3, H0373: 3, H0266: 3, H0553: 3, H0644: 3, H0169: 3, H0674: 3, L0456: 3, H0268: 3, S0002: 3, L0770: 3, L0772: 3, L0646: 3, L0766: 3, L0776: 3, L0665: 3, L0438: 3, H0659: 3, H0660: 3, H0522: 3, H0436: 3, L0780: 3, L0759: 3, H0445: 3, H0265: 2, H0716: 2, S0114: 2, S0134: 2, H0583: 2, H0650: 2, S0116: 2, H0341: 2, S0418: 2, H0733: 2, S0140: 2, S0222: 2, H0486: 2, H0069: 2, H0042: 2, H0575: 2, S0010: 2, H0318: 2, H0052: 2, T0110: 2, L0471: 2, H0271: 2, H0416: 2, H0039: 2, H0031: 2, H0673: 2, S0366: 2, H0038: 2, H0551: 2, H0412: 2, H0413: 2, S0015: 2.						
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						S0438: 2, S0440: 2, H0641: 2, S0144: 2, S0422: 2, L0763: 2, L0642: 2, L0764: 2, L0773: 2, L0662: 2, L0768: 2, L0649: 2, L0651: 2, L0657: 2, L0517: 2, L0384: 2, L0809: 2, L0519: 2, L0529: 2, L0543: 2, L0663: 2, H0520: 2, H0519: 2, H0670: 2, H0539: 2, H0518: 2, H0727: 2, S0028: 2, L0757: 2, L0758: 2, H0707: 2, S0011: 2, S0026: 2, H0653: 2, H0542: 2, H0685: 1, S0342: 1, H0717: 1, S0218: 1, H0306: 1, H0459: 1, H0638: 1, S0420: 1, S0356: 1, S0358: 1, S0376: 1, S0410: 1, H0637: 1, H0728: 1, S0007: 1, S0045: 1, S0476: 1, H0619: 1, L0717: 1, S0278: 1, H0431: 1, H0592: 1, S0414: 1, H0559: 1, T0039: 1, H0250: 1, H0635: 1, H0002: 1, H0036: 1, H0037: 1, H0390: 1, T0048: 1, H0421: 1, H0251: 1, H0085: 1, H0596: 1, T0115: 1, H0327: 1, H0572: 1, H0569: 1, H0081: 1, H0011: 1, H0024: 1, H0014: 1, L0163: 1, S0388: 1, S0051: 1, H0354: 1, H0594: 1, H0110: 1, S0250: 1, S0214: 1, H0428: 1, H0622: 1, T0023: 1, T0006: 1, H0628: 1, L0055: 1, H0383: 1, S0036: 1, H0135: 1, H0591: 1, H0063: 1, H0488: 1, H0056: 1, H0494: 1, H0560: 1, H0625: 1, H0561: 1, S0464: 1, H0509: 1, H0646: 1, S0142: 1, L0451: 1, L0502: 1, L0640: 1, L0637: 1, L5566: 1, L0761: 1, L0667: 1, L0803: 1, L0650: 1, L0775: 1, L0378: 1, L0806: 1,					
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Figure 1 consists of 12 histograms arranged in a single row. Each histogram represents the frequency distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is 'Number of non-zero elements in  $x$ ' with major ticks at 0, 20, 40, 60, 80, 100, and 120. The y-axis is 'Frequency' with major ticks at 0, 2, 4, 6, 8, and 10. The histograms are labeled with  $n$  values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As  $n$  increases, the distribution becomes more concentrated around  $n$ , and the peak frequency increases.

596	HDRAA17	567439	606	77 - 229	3203			L0653: 1, L0527: 1, L0635: 1, L0526: 1, L0782: 1, L0530: 1, L0792: 1, S0053: 1, H0702: 1, L0565: 1, H0691: 1, H0693: 1, H0726: 1, S0126: 1, H0689: 1, H0435: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0330: 1, H0710: 1, S0332: 1, H0696: 1, S0044: 1, S0404: 1, H0555: 1, H0627: 1, S0206: 1, L0593: 1, H0506: 1 and H0721: 1. H0373: 7, L0471: 6, S0276: 6, S0114: 5, H0537: 5, H0524: 5, H0271: 4, H0525: 4, S0442: 3, S0358: 3, S0360: 3, H0486: 3, H0156: 3, H0598: 3, H0634: 3, S0386: 3, S0354: 2, H0581: 2, H0052: 2, S0250: 2, H0272: 2, S0440: 2, H0523: 2, S0028: 2, H0445: 2, H0170: 1, L0615: 1, T0002: 1, S0040: 1, S0134: 1, L0808: 1, S0212: 1, H0346: 1, H0483: 1, H0669: 1, H0662: 1, S0376: 1, S0444: 1, S0046: 1, H0261: 1, S0222: 1, H0586: 1, H0587: 1, S0414: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0310: 1, H0009: 1, H0012: 1, H0620: 1, S0362: 1, H0051: 1, H0355: 1, H0375: 1, S0318: 1, S0214: 1, H0328: 1, H0428: 1, H0535: 1, H0553: 1, H0316: 1, S0036: 1, H0063: 1, H0087: 1, T0041: 1, H0429: 1, H0625: 1, H0538: 1, H0695: 1, L0803: 1, L0524: 1, S0374: 1, H0684: 1, S0330: 1, H0539: 1, H0579: 1, H0696: 1, H0555: 1, L0742: 1, L0748: 1, L0740: 1, L0745: 1, L0746: 1, L0747: 1, L0687:	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460
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597	HDRAC68	608173	607	65 - 217	3204	1, S0436: 1 and H0008: 1. H0373: 7, L0471: 6, S0276: 6, S0114: 5, H0537: 5, H0524: 5, H0271: 4, H0525: 4, S0442: 3, S0358: 3, H0486: 3, H0156: 3, H0598: 3, H0634: 3, S0386: 3, S0354: 2, S0360: 2, H0052: 2, S0250: 2, H0272: 2, S0440: 2, H0523: 2, S0028: 2, H0445: 2, H0170: 1, L0615: 1, T0002: 1, S0040: 1, S0134: 1, L0808: 1, S0212: 1, H0346: 1, H0483: 1, H0669: 1, H0662: 1, S0376: 1, S0444: 1, S0046: 1, H0261: 1, S0222: 1, H0586: 1, H0587: 1, S0414: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0310: 1, H0009: 1, H0012: 1, H0620: 1, S0362: 1, H0051: 1, H0355: 1, H0375: 1, S0318: 1, S0214: 1, H0328: 1, H0428: 1, H0535: 1, H0553: 1, H0316: 1, S0036: 1, H0063: 1, H0087: 1, T0041: 1, H0429: 1, H0625: 1, H0538: 1, H0695: 1, L0803: 1, L0524: 1, S0374: 1, S0330: 1, H0539: 1, H0579: 1, H0696: 1, H0555: 1, L0742: 1, L0748: 1, L0740: 1, L0745: 1, L0746: 1, L0747: 1, L0687: 1, S0436: 1 and H0008: 1.			
598	HDSAC78	596810	608	11 - 109	3205	L0749: 4, H0620: 2, L0769: 2, L0766: 2, H0547: 2, L0748: 2, H0265: 1, H0329: 1, L0717: 1, H0050: 1, H0024: 1, H0529: 1, L0764: 1, L0521: 1, L0794: 1, L0774: 1, L0775: 1, L0526: 1, L0783: 1, L0809: 1, L0665: 1, H0144: 1, S0380: 1, H0436: 1, L0747: 1, L0750: 1 and 19qter			

599	HDSA37	603518	609	239 - 406	3206			H0445: 1. H0329: 1 and H0593: 1.	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145	
600	HDSAM57	834822	610	226 - 297	3207			H0329: 1 and S0216: 1.			
601	HDSAO14	847054	611	208 - 357	3208		Gly-29 to Lys-49.	H0329: 1			
602	HDSAO64	603519	612	351 - 440	3209			S0358: 1, H0329: 1, S0045: 1, H0024: 1, L0055: 1, H0316: 1, S0422: 1, L0794: 1, L0804: 1, H0658: 1, L0748: 1, L0751: 1, L0753: 1 and H0352: 1.			
603	HDSAP15	772712	613	976 - 1356	3210		Phe-83 to Ser-95, Glu-111 to Thr-124.	AR089: 8, AR316: 8, AR060: 7 L0748: 9, L0766: 7, L0747: 7, L0803: 5, L0439: 5, H0031: 4, H0529: 4, L0752: 4, S0003: 3, L0774: 3, L0666: 3, L0749: 3, L0777: 3, H0170: 2, H0587: 2, H0428: 2, S0422: 2, L0521: 2, L0655: 2, L0663: 2, H0648: 2, S0406: 2, H0436: 2, L0779: 2, L0731: 2, S0031: 2, S0424: 2, T0002: 1, H0341: 1, S0212: 1, H0664: 1, H0402: 1, H0329: 1, H0722: 1, S0045: 1, S0046: 1, H0619: 1, S0222: 1, H0441: 1, H0497: 1, H0486: 1, T0039: 1, H0013: 1, H0250: 1, H0635: 1, H0156: 1, H0318: 1, H0421: 1, H0309: 1, H0546: 1, H0009: 1, L0157: 1, H0566: 1, H0014: 1, H0266: 1, S0250: 1, S0214: 1, H0615: 1, H0688: 1, H0030: 1, H0644: 1, H0628: 1, L0455: 1, H0090: 1, H0591: 1, H0056:	4		

604	HDTAR39	847055	614	199 - 357	3211			1, H0623: 1, T0041: 1, H0641: 1, S0002: 1, S0426: 1, L0769: 1, L0372: 1, L0771: 1, L0773: 1, L0662: 1, L0522: 1, L0661: 1, L0659: 1, L0526: 1, L0809: 1, L0791: 1, L0664: 1, L0665: 1, H0144: 1, H0697: 1, L0438: 1, H0547: 1, H0689: 1, H0659: 1, H0670: 1, H0660: 1, S0330: 1, H0539: 1, S0380: 1, H0521: 1, S0390: 1, L0742: 1, L0751: 1, L0757: 1, L0599: 1, H0667: 1 and S0196: 1.		
605	HDTAS57	664482	615	62 - 214	3212			H0623: 4, L0748: 3, L0747: 3, L0749: 3, S0126: 2, L0750: 2, L0758: 2, S0358: 1, S0444: 1, H0486: 1, H0591: 1, H0056: 1, H0100: 1, S0426: 1, L0659: 1, L0666: 1, H0519: 1, L0757: 1 and H0343: 1.	3p13-q13.2	156845, 156845, 156845, 164500, 600151
606	HDTBP62	665417	616	203 - 316	3213	Met-1 to Lys-9, Arg-31 to Phe-37.		H0556: 4, H0265: 1, H0619: 1, H0486: 1, L0143: 1, H0494: 1, H0670: 1 and H0422: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501

									1, L0747: 1, L0731: 1 and H0423: 1.				
607	HDTBQ77	587295	617	348 - 452	3214				AR089: 7, AR316: 6, AR060: 5 H0486: 2, H0036: 1, L0666: 1, H0670: 1 and S0106: 1.				
608	HDTDA48	809110	618	105 - 218	3215				H0392: 1 and H0486: 1.	4p15.3			
609	HDTDE66	610074	619	223 - 450	3216		Gln-40 to Leu-54, Asn-58 to Thr-69.		S0438: 7, S0406: 7, L0659: 6, S0374: 6, S0354: 5, L0771: 4, S0404: 4, S0356: 3, S0358: 3, S0408: 3, H0431: 3, H0486: 3, H0510: 3, H0039: 3, H0641: 3, L0776: 3, L0666: 3, L0748: 3, S0376: 2, S0360: 2, S0278: 2, H0331: 2, H0090: 2, H0509: 2, L0769: 2, L0768: 2, L0649: 2, L0774: 2, L0775: 2, L0655: 2, H0547: 2, H0658: 2, H0521: 2, H0555: 2, L0744: 2, L0754: 2, L0745: 2, H0445: 2, H0583: 1, S0442: 1, H0580: 1, H0393: 1, H0549: 1, H0550: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, L0021: 1, L0022: 1, H0036: 1, H0581: 1, S0324: 1, H0263: 1, H0204: 1, H0546: 1, H0199: 1, H0246: 1, H0355: 1, H0188: 1, H0288: 1, H0428: 1, H0604: 1, H0031: 1, H0617: 1, H0124: 1, S0036: 1, H0063: 1, H0059: 1, L0770: 1, L0646: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0662: 1, L0651: 1, L0653: 1, L0606: 1, L0809: 1, H0660: 1, H0672: 1, S0328: 1, H0679: 1, S3014: 1, L0743: 1, L0750: 1, L0777: 1 and H0506: 1.				
610	HDTDG75	799892	620	410 - 517	3217		Tyr-20 to Leu-35.		H0486: 1				
611	HDTDS09	651320	621	443 - 520	3218				AR033: 29, AR275: 29,	7q11.22		116860, 129900,	

095087 091201

AR273: 22, AR248: 21, AR185: 19, AR104: 19, AR186: 16, AR089: 16, AR231: 15, AR291: 14, AR060: 14, AR240: 13, AR316: 13, AR315: 12, AR280: 12, AR314: 11, AR183: 11, AR237: 11, AR244: 10, AR229: 10, AR238: 10, AR234: 10, AR184: 10, AR241: 9, AR226: 9, AR281: 9, AR247: 9, AR177: 9, AR269: 9, AR219: 9, AR292: 8, AR290: 8, AR282: 8, AR310: 8, AR274: 7, AR270: 7, AR268: 7, AR233: 7, AR313: 7, AR298: 7, AR218: 7, AR175: 7, AR243: 7, AR295: 7, AR271: 7, AR289: 7, AR096: 7, AR249: 7, AR284: 6, AR182: 6, AR061: 6, AR267: 6, AR198: 6, AR232: 6, AR202: 6, AR227: 6, AR246: 6, AR296: 6, AR192: 6, AR055: 6, AR204: 6, AR285: 5, AR253: 5, AR299: 5, AR293: 5, AR312: 5, AR206: 5, AR179: 5, AR039: 5, AR309: 5, AR286: 4, AR277: 4, AR263: 4, AR294: 4, AR300: 4, AR266: 4, AR256: 4, AR259: 3, AR265: 3, AR205: 3, AR052: 3, AR053: 3,	7q31.33	180105, 190900, 222800, 246900
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005081-03121

612	HD/TFF53	637591	622	19 - 48	3219			1, L0789: 1, L0663: 1, L0664: 1, H0547: 1, H0666: 1, H0648: 1, H0539: 1, S0378: 1, S0454: 1, S0270: 1, S0406: 1, H0436: 1, S0027: 1, L0746: 1, L0759: 1, S0434: 1, S0436: 1, H0136: 1 and L0698: 1.		
								AR089: 10, AR316: 8, AR060: 6 S0422: 15, H0521: 13, L0493: 11, S0360: 8, L0766: 8, L0777: 8, H0581: 5, H0659: 5, L0439: 5, L0752: 5, H0423: 5, S0356: 4, L0471: 4, H0617: 4, L0521: 4, L0805: 4, L0655: 4, S0328: 4, L0756: 4, S0242: 4, H0543: 4, S0418: 3, S0444: 3, H0013: 3, S0474: 3, H0266: 3, S0003: 3, H0674: 3, S0002: 3, L0803: 3, L0663: 3, H0144: 3, S0126: 3, H0522: 3, L0754: 3, S0026: 3, S0194: 3, H0624: 2, H0556: 2, H0657: 2, H0255: 2, S0420: 2, S0442: 2, S0376: 2, S0408: 2, H0455: 2, H0486: 2, H0318: 2, L0738: 2, H0150: 2, S0250: 2, S0214: 2, H0031: 2, H0032: 2, H0169: 2, H0090: 2, H0591: 2, S0440: 2, S0144: 2, S0426: 2, L0598: 2, L0770: 2, L0638: 2, L0768: 2, L0776: 2, L0527: 2, L0659: 2, L0518: 2, L0666: 2, L0438: 2, H0520: 2, H0547: 2, H0435: 2, L0740: 2, L0751: 2, L0779: 2, L0731: 2, L0757: 2, L0605: 2, L0592: 2, H0542: 2, H0422: 2, H0265: 1, S0470: 1, S0040: 1, T0049: 1, S0134: 1, S0218: 1, H0656: 1, S0180: 1, H0638: 1, S0354: 1.		

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector  $x$  for a specific value of  $n$ . The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. The histograms are for  $n = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120$ . As  $n$  increases, the distribution of  $x$  becomes more concentrated around zero, with the peak count increasing significantly.

613	HDTGW76	862012	623	156 - 269	3220			1, H0580: 1, H0729: 1, S0045: 1, S0476: 1, H0351: 1, H0550: 1, S6014: 1, H0592: 1, H0586: 1, H0497: 1, H0574: 1, L0623: 1, H0485: 1, L0586: 1, H0250: 1, H0069: 1, H0156: 1, S0010: 1, S0346: 1, H0196: 1, H0251: 1, H0309: 1, H0263: 1, H0545: 1, H0024: 1, H0015: 1, H0373: 1, H0083: 1, H0375: 1, S0312: 1, H0428: 1, H0039: 1, H0622: 1, L0194: 1, L0483: 1, T0006: 1, H0553: 1, H0644: 1, H0673: 1, H0212: 1, H0316: 1, H0598: 1, H0264: 1, H0488: 1, H0412: 1, H0413: 1, H0059: 1, H0102: 1, H0100: 1, T0042: 1, H0494: 1, H0625: 1, S0438: 1, H0509: 1, H0132: 1, H0652: 1, S0142: 1, UNKWN: 1, H0529: 1, L0520: 1, L0505: 1, L0640: 1, L0769: 1, L0637: 1, L5565: 1, L0373: 1, L0372: 1, L0648: 1, L0662: 1, L0767: 1, L0794: 1, L0774: 1, L0775: 1, L0806: 1, L0807: 1, L0657: 1, L0635: 1, L0526: 1, L5623: 1, L0532: 1, L0664: 1, L0665: 1, S0216: 1, S0310: 1, H0711: 1, H0690: 1, H0672: 1, S0378: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0436: 1, H0576: 1, H0479: 1, H0627: 1, H0631: 1, S0027: 1, L0748: 1, L0745: 1, L0749: 1, L0750: 1, L0755: 1, H0444: 1, H0343: 1, S0394: 1, L0485: 1, S0196: 1, L0698: 1, S0460: 1, H0506: 1 and H0352: 1. L0754: 3, L0750: 3, L0766: 2, L0665: 2, H0486: 1, L0021: 1.	2p13-pl5	203800, 602404
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614	HD TGZ56	800756	624	250 - 360	3221			1, H0251: 1, H0373: 1, H0375: 1, H0316: 1, H0413: 1, L0646: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0378: 1, L0659: 1, L0666: 1, H0682: 1, L0747: 1, L0779: 1, L0777: 1, S0276: 1 and H0422: 1.		
								AR252: 8, AR089: 4, AR171: 4, AR263: 4, AR060: 4, AR192: 4, AR195: 4, AR245: 3, AR221: 3, AR225: 3, AR294: 3, AR316: 3, AR170: 3, AR246: 3, AR282: 3, AR212: 3, AR164: 2, AR277: 2, AR180: 2, AR169: 2, AR201: 2, AR224: 2, AR205: 2, AR232: 2, AR285: 2, AR290: 2, AR271: 2, AR185: 2, AR096: 2, AR179: 1, AR215: 1, AR293: 1, AR261: 1, AR266: 1, AR218: 1, AR312: 1, AR213: 1 H0486: 1		
615	HD THZ85	886163	625	114 - 209	3222			AR089: 47, AR316: 35, AR060: 25 H0457: 8, L0766: 7, H0486: 5, L0769: 5, L0779: 4, L0599: 4, H0641: 3, L0662: 3, L0809: 3, H0547: 3, L0748: 3, L0439: 3, L0777: 3, H0445: 3, L0589: 3, H0542: 3, H0543: 3, H0423: 3, H0341: 2, H0497: 2, H0635: 2, H0575: 2, H0266: 2, H0622: 2, S0002: 2, S0426: 2, L0803: 2, L0774: 2, L0517: 2, L0666: 2, L0665: 2, H0519: 2, H0555: 2		

616	HDTIM39	886164	626	401 - 658	3223	Ser-62 to Gly-75.	2, L0756: 2, L0731: 2, L0758: 2, L0591: 2, L0593: 2, L0362: 2, H0713: 1, H0717: 1, H0650: 1, H0657: 1, H0656: 1, S0001: 1, H0663: 1, H0402: 1, H0305: 1, H0125: 1, S0356: 1, S0360: 1, H0580: 1, S0045: 1, L0717: 1, H0549: 1, H0550: 1, S0222: 1, H0592: 1, H0586: 1, H0331: 1, H0485: 1, L0586: 1, H0013: 1, S0280: 1, H0156: 1, L0040: 1, H0051: 1, H0594: 1, H0271: 1, S0214: 1, H0328: 1, H0615: 1, H0428: 1, H0264: 1, H0560: 1, S0144: 1, L0369: 1, L0640: 1, L0770: 1, L0761: 1, L0667: 1, L0373: 1, L0372: 1, L0765: 1, L0794: 1, L0649: 1, L0804: 1, L0375: 1, L0518: 1, L0789: 1, L0663: 1, S0216: 1, S0374: 1, H0593: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, S0152: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, S0027: 1, S0032: 1, L0745: 1, H0667: 1, S0192: 1 and H0422: 1.	3p24.3-p22.1	154705, 182280, 190160, 227646, 261510, 600163, 601154
						AR089: 26, AR060: 18, AR316: 15, AR263: 7, AR310: 3, AR251: 3, AR247: 2, AR289: 2, AR270: 2, AR267: 2, AR282: 2, AR281: 2, AR313: 2, AR204: 2, AR183: 2, AR315: 2, AR227: 1, AR246: 1, AR275: 1, AR234: 1, AR312: 1, AR182: 1, AR226: 1, AR206: 1, AR295: 1, AR265: 1, AR096: 1, AR232: 1			

					H0494: 9, L0751: 9, S0126: 6, L0747: 6, H0617: 5, L0783: 5, H0520: 5, H0547: 5, S0358: 4, S0360: 4, H0087: 4, H0519: 4, L0741: 4, L0731: 4, H0556: 3, H0713: 3, L0005: 3, H0722: 3, H0052: 3, H0023: 3, H0551: 3, S0440: 3, L0767: 3, H0539: 3, L0748: 3, L0755: 3, S0436: 3, L0599: 3, H0543: 3, H0624: 2, H0717: 2, H0341: 2, S0212: 2, H0402: 2, S0410: 2, H0580: 2, S0222: 2, H0618: 2, H0457: 2, S0051: 2, H0606: 2, H0038: 2, H0063: 2, H0509: 2, L0770: 2, L0769: 2, L0764: 2, L0649: 2, L0659: 2, L0382: 2, L0666: 2, L0663: 2, L0665: 2, H0651: 2, H0696: 2, S0404: 2, H0436: 2, S0037: 2, L0754: 2, L0749: 2, L0750: 2, L0757: 2, H0445: 2, H0668: 2, H0265: 1, S0470: 1, H0294: 1, H0583: 1, H0650: 1, H0255: 1, H0663: 1, H0664: 1, H0306: 1, S0418: 1, S0420: 1, S0444: 1, H0741: 1, S0045: 1, H0619: 1, S0278: 1, H0497: 1, H0486: 1, H0427: 1, H0003: 1, H0042: 1, H0706: 1, H0545: 1, H0046: 1, H0012: 1, H0630: 1, H0510: 1, H0266: 1, H0292: 1, H0028: 1, S0250: 1, H0622: 1, L0483: 1, T0006: 1, H0628: 1, L0055: 1, L0456: 1, H0124: 1, S0366: 1, H0376: 1, H0135: 1, H0264: 1, H0412: 1, H0413: 1, H0102: 1, L0564: 1, L0370: 1, L0475: 1, H0386: 1, H0132: 1, S0002: 1, H0743: 1, H0529: 1, L0763: 1, L0796: 1, L0637:
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617	HDTKJ29	840023	627	112 - 735	3224	Gln-113 to Phe-118.	1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0374: 1, L0648: 1, L0363: 1, L0768: 1, L0766: 1, L0775: 1, L0375: 1, L0652: 1, L0657: 1, L0656: 1, L0518: 1, L0647: 1, H0698: 1, H0690: 1, H0435: 1, H0660: 1, H0666: 1, H0672: 1, S0328: 1, H0518: 1, H0522: 1, H0555: 1, H0187: 1, H0626: 1, H0627: 1, S014: 1, S0027: 1, S0028: 1, L0753: 1, L0591: 1, L0592: 1, L0593: 1, L0595: 1, L0361: 1, H0667: 1, H0542: 1, H0423: 1, H0422: 1, S0424: 1 and S0458: 1. AR251: 109, AR233: 97, AR266: 96, AR296: 90, AR267: 90, AR258: 88, AR237: 87, AR183: 82, AR182: 80, AR285: 78, AR229: 77, AR184: 74, AR227: 74, AR269: 72, AR259: 70, AR292: 68, AR293: 67, AR298: 67, AR234: 66, AR256: 66, AR314: 66, AR289: 65, AR294: 64, AR284: 62, AR175: 60, AR249: 60, AR286: 57, AR089: 55, AR270: 55, AR248: 54, AR226: 53, AR253: 53, AR033: 51, AR055: 51, AR238: 49, AR185: 49, AR179: 49, AR232: 48, AR219: 47, AR290: 46, AR316: 46, AR281: 43, AR295: 43, AR315: 42, AR061: 42, AR280: 42, AR060: 41, AR218: 40, AR231: 40, AR291: 39,		
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618	HDUAB12	809111	628	294 - 395	3225			AR300: 38, AR177: 38, AR268: 37, AR265: 33, AR263: 28, AR299: 27, AR096: 26, AR282: 26, AR313: 26, AR310: 26, AR247: 25, AR283: 24, AR186: 16, AR277: 15, AR240: 15, AR312: 10, AR309: 10, AR213: 7, AR053: 7, AR052: 6, AR241: 2, AR205: 2, AR243: 2 L0745: 7, H0486: 4, L0764: 3, L0774: 3, L0779: 3, H0543: 3, H0130: 2, L0766: 2, L0803: 2, H0666: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0596: 2, T0049: 1, H0657: 1, H0662: 1, S0358: 1, S0360: 1, H0580: 1, S0046: 1, S0222: 1, H0586: 1, H0013: 1, L0021: 1, H0251: 1, H0266: 1, S0003: 1, S0214: 1, H0428: 1, H0535: 1, H0644: 1, H0674: 1, H0598: 1, H0038: 1, H0616: 1, H0268: 1, H0509: 1, L0371: 1, L0770: 1, L0637: 1, L0372: 1, L0662: 1, L0768: 1, L0550: 1, L0775: 1, L0375: 1, L0523: 1, L0542: 1, L0526: 1, L0809: 1, L0663: 1, S0126: 1, H0435: 1, H0670: 1, H0539: 1, S0380: 1, H0522: 1, S0044: 1, L0740: 1, L0754: 1, L0750: 1, L0759: 1, H0445: 1 and L0603: 1.	18p11.2	202200
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[illegible]



619	HDUAD68	607564	629	35 - 139	3226				H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.		
620	HE2AC74	859609	630	1869 - 1964	3227				L0766: 2, H0579: 1 and L0779: 1. AR089: 17, AR316: 16, AR060: 16 L0754: 17, L0740: 10, L0747: 9, L0438: 8, L0439: 8, S0212: 7, S0418: 7, L0749: 7, S0192: 7, L0731: 6, S0356: 5, S0440: 5, L0666: 5, L0748: 5, L0757: 5, H0716: 4, L0775: 4, S0374: 4, L0756: 4, L0755: 4, S0442: 3, S0444: 3, S0360: 3, H0586: 3, H0486: 3, H0013: 3, S0003: 3, L0774: 3, L0659: 3, H0539: 3, S0378: 3, H0696: 3, L0752: 3, H0445: 3, S0420: 2, S0354: 2, S0358: 2, H0411: 2, H0431: 2, H0427: 2, H0050: 2, L0471: 2, S0250: 2, H0328: 2, H0124: 2, S0210: 2, L0764: 2, L0771: 2, L0662: 2, L0653: 2, L0663: 2, L0665: 2, S0126: 2, H0658: 2, L0751: 2, L0779: 2, L0777: 2, L0759: 2, L0590: 2, L0608: 2, L0362: 2, S0026: 2, H0170: 1, H0171: 1, H0222: 1, H0685: 1, S0342: 1, T0049: 1, H0675: 1, S0468: 1, H0592: 1, H0587: 1, H0574: 1, S0280: 1, H0575: 1, H0036: 1, H0590: 1, S0010: 1, T0048: 1, S0049: 1, H0597: 1, H0545: 1, H0024: 1, H0061: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1,		

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621	HE2AC74	901343	631	3022 - 3117	3228		AR089: 17, AR316: 16, AR060: 16 L0754: 17, L0740: 10, L0747: 9, L0438: 8, L0439: 8, S0212: 7, S0418: 7, L0749: 7, S0192: 7, L0731: 6, S0356: 5, S0440: 5, L0666: 5, L0748: 5, L0757: 5, H0716: 4, L0775: 4, S0374: 4, L0756: 4, L0755: 4, S0442: 3, S0444: 3, S0360: 3, H0586: 3, H0486: 3, H0013: 3, S0003: 3, L0774: 3, L0659: 3, H0539: 3, S0378: 3, H0696: 3, L0752: 3, H0445: 3, S0420: 2, S0354: 2, S0358: 2, H0411: 2, H0431: 2, H0427: 2, H0050: 2, L0471: 2, S0250: 2, H0328: 2, H0124: 2, S0210: 2, L0764: 2, L0771: 2, L0662: 2, L0653: 2, L0663: 2, L0665: 2, S0126: 2, H0658: 2, L0751: 2, L0779: 2, L0777: 2, L0759: 2, L0590: 2, L0608: 2, L0362: 2, S0026: 2, H0170: 1, H0171: 1, H0222: 1,				

622	HE2AC75	600397	632	14 - 115	3229					H0685: 1, S0342: 1, T0049: 1, H0675: 1, S0468: 1, H0592: 1, H0587: 1, H0574: 1, S0280: 1, H0575: 1, H0036: 1, H0590: 1, S0010: 1, T0048: 1, S0049: 1, H0597: 1, H0545: 1, H0024: 1, H0061: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1, H0031: 1, H0553: 1, H0628: 1, H0212: 1, H0388: 1, H0163: 1, H0038: 1, H0268: 1, H0412: 1, H0494: 1, S0150: 1, H0646: 1, H0652: 1, L0770: 1, L0646: 1, L0768: 1, L0364: 1, L0388: 1, L0527: 1, L0658: 1, L0559: 1, H0144: 1, L0565: 1, H0547: 1, H0666: 1, H0648: 1, H0672: 1, S0380: 1, S0044: 1, S0146: 1, H0631: 1, H0345: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0434: 1, S0436: 1, L0588: 1, L0589: 1, L0605: 1, L0599: 1, L0593: 1, H0653: 1, H0665: 1, S0194: 1 and S0424: 1.				
623	HE2AI94	772542	633	144 - 311	3230	Ile-32 to Arg-41.				H0170: 1 AR089: 31, AR316: 25, AR060: 20 L0754: 18, L0731: 18, S0003: 5, L0143: 4, H0590: 3, H0553: 3, L0803: 3, S0354: 2, S0358: 2, S0422: 2, L0766: 2, H0648: 2, L0779: 2, L0777: 2, L0755: 2, L0605: 2, L0599: 2, H0170: 1, H0580: 1, H0497: 1, H0013: 1, L0021: 1, H0098: 1, H0083: 1, H0375: 1, S0214: 1, H0111: 1, H0509: 1, S0002: 1, L0598: 1, L0794: 1, L0659: 1, L0663: 1, H0593: 1, H0518: 1, H0678: 1, L0748: 1, L0740: 1,				

624	HE2AT61	834039	634	487 - 711	3231	Phe-26 to His-33.	L0750: 1, L0780: 1 and S0434: 1. L0805: 6, L0766: 5, L0758: 5, L0803: 4, L0794: 3, L0439: 3, L0774: 2, L0776: 2, L0517: 2, L0748: 2, L0751: 2, L0777: 2, L0731: 2, L0608: 2, L0594: 2, H0170: 1, H0171: 1, H0657: 1, H0656: 1, S0442: 1, H0369: 1, S0222: 1, H0574: 1, H0632: 1, T0040: 1, L0021: 1, H0575: 1, S0010: 1, H0318: 1, H0046: 1, L0126: 1, S0051: 1, S6028: 1, L0142: 1, H0628: 1, H0090: 1, H0038: 1, H0269: 1, H0100: 1, S0438: 1, H0633: 1, L0369: 1, L0637: 1, L3905: 1, L0761: 1, L0768: 1, L0649: 1, L0804: 1, L0652: 1, L0653: 1, L0659: 1, L0809: 1, L0788: 1, L0789: 1, L0438: 1, H0547: 1, H0539: 1, S0152: 1, H0521: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1 and L0485: 1.			
625	HE2AX36	812337	635	34 - 54	3232		H0457: 6, L0766: 6, L0758: 5, H0581: 3, H0553: 3, L0763: 3, L0439: 3, L0779: 3, L0731: 3, H0423: 3, S0358: 2, L0598: 2, L0662: 2, L0768: 2, L0794: 2, L0665: 2, S0126: 2, L0754: 2, L0750: 2, L0777: 2, L0485: 2, L0362: 2, S0026: 2, H0170: 1, S0114: 1, H0638: 1, H0125: 1, S0418: 1, H0574: 1, H0486: 1, S0280: 1, L0021: 1, H0590: 1, H0421: 1, H0204: 1, H0123: 1, S0003: 1, T0023: 1, H0163: 1, H0634: 1, H0529: 1, L0761: 1, L0646: 1, L0641: 1, L0804: 1, L0653: 1, L0657: 1, L0659: 1 and L0485: 1.	12q14		123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116

050603-091201

626	HE2AY96	796800	636	1394 - 1432	3233			1, L0666: 1, H0144: 1, S0374: 1, H0672: 1, H0521: 1, H0522: 1, H0436: 1, L0743: 1, L0752: 1, H0667: 1, S0196: 1 and S0452: 1.		
								AR089: 32, AR316: 28, AR060: 24 L0599: 84, L0747: 16, S0192: 11, H0616: 9, L0731: 9, L0776: 8, L0766: 7, H0038: 6, L0751: 6, L0439: 5, L0754: 5, L0758: 5, S0420: 4, H0318: 4, H0031: 4, L0659: 4, L0756: 4, L0594: 4, H0556: 3, H0305: 3, S0046: 3, T0039: 3, T0048: 3, S0440: 3, L0774: 3, L0744: 3, L0748: 3, H0445: 3, H0171: 2, H0265: 2, H0483: 2, H0619: 2, S0222: 2, H0333: 2, H0331: 2, H0618: 2, H0581: 2, H0050: 2, H0083: 2, H0428: 2, H0673: 2, L0455: 2, H0591: 2, H0551: 2, H0264: 2, S0344: 2, L0769: 2, L0662: 2, L0804: 2, L0657: 2, L0809: 2, L0663: 2, L0664: 2, H0520: 2, H0547: 2, H0670: 2, H0648: 2, S0330: 2, H0518: 2, S014: 2, S0206: 2, L0740: 2, L0757: 2, L0588: 2, L0362: 2, H0543: 2, H0624: 1, H0170: 1, T0002: 1, H0717: 1, H0295: 1, T0049: 1, S0134: 1, H0657: 1, H0656: 1, H0341: 1, H0255: 1, H0638: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0444: 1, S0007: 1, H0208: 1, S0045: 1, S0476: 1, S0278: 1, H0549: 1, H0431: 1, H0432: 1, H0409: 1, H0602: 1, H0497: 1, H0485: 1, H0486: 1, H0013: 1, H0244: 1.		

627	HE2BD72	600349	637	217 - 396	3234	Arg-25 to Tyr-30, Pro-51 to Leu-59.	1, H0427: 1, H0156: 1, H0599: 1, H0590: 1, T0001: 1, H0597: 1, H0327: 1, H0545: 1, H0046: 1, L0118: 1, L0471: 1, H0620: 1, H0024: 1, S0362: 1, H0373: 1, S0051: 1, S6028: 1, H0188: 1, H0687: 1, H0553: 1, H0628: 1, H0674: 1, H0708: 1, H0068: 1, H0598: 1, H0090: 1, H0269: 1, H0413: 1, T0069: 1, T0004: 1, L0370: 1, H0625: 1, S0144: 1, S0002: 1, L0598: 1, L0640: 1, L0763: 1, L0770: 1, L0646: 1, L0363: 1, L0768: 1, L0794: 1, L0386: 1, L0650: 1, L0655: 1, L0807: 1, L0542: 1, L0783: 1, L0382: 1, L0541: 1, L0543: 1, L0790: 1, L0666: 1, S0428: 1, S0053: 1, H0144: 1, S0374: 1, H0723: 1, H0593: 1, S0126: 1, H0689: 1, H0435: 1, H0658: 1, S0380: 1, H0710: 1, S0152: 1, H0696: 1, S0044: 1, S0406: 1, H0187: 1, H0478: 1, H0627: 1, S012: 1, S0390: 1, L0749: 1, L0779: 1, L0759: 1, S0031: 1, S0434: 1, S0436: 1, L0581: 1, S0042: 1, S0398: 1 and L0600: 1.		
628	HE2BH50	847056	638	129 - 203	3235		AR089: 25, AR316: 19, AR060: 13 H0031: 3, H0624: 1, H0171: 1, H0208: 1, H0592: 1, H0013: 1, S0346: 1, H0052: 1, H0135: 1, H0591: 1, S0426: 1, L0378: 1, H0593: 1 and L0753: 1. L0754: 13, L0752: 13, L0742: 10, S0360: 9, L0758: 9, L0483: 6, L0771: 6, L0747: 6, L0749: 6, L0750: 6, S0003:	1p31	180069, 180069, 180069, 201450, 248610, 600309, 601676, 602522

[illegible]

629	HE2CB53	581043	639	121 - 237	3236	His-31 to Gln-38.	1, L0387: 1, L0649: 1, L0661: 1, L0629: 1, L0788: 1, L0792: 1, H0547: 1, H0519: 1, H0593: 1, H0689: 1, H0711: 1, H0660: 1, H0648: 1, H0672: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, S0190: 1, H0694: 1, H0436: 1, L0777: 1, L0780: 1, L0757: 1, S0031: 1, H0444: 1, H0445: 1, H0595: 1, S0434: 1, L0589: 1, L0605: 1, L0592: 1, L0593: 1, L0601: 1, H0667: 1, H0423: 1 and H0506: 1.		
							L0747: 6, L0803: 4, H0656: 2, S0358: 2, H0421: 2, H0040: 2, L0770: 2, L0662: 2, L0766: 2, L0655: 2, L0789: 2, H0144: 2, L0750: 2, L0731: 2, H0171: 1, H0686: 1, S0114: 1, H0263: 1, H0597: 1, L0055: 1, H0090: 1, H0494: 1, H0647: 1, S0422: 1, H0529: 1, L0774: 1, L0657: 1, L0634: 1, L0526: 1, L0518: 1, L0666: 1, L0665: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, L0748: 1, L0751: 1, L0754: 1, L0777: 1, L0758: 1, H0422: 1 and S0424: 1.	11	
630	HE2CC17	566806	640	70 - 168	3237		AR060: 6, AR316: 5, AR089: 4 H0171: 1 and S0015: 1.		
631	HE2CJ53	637592	641	123 - 362	3238	Glu-69 to Val-75.	AR089: 25, AR316: 21, AR060: 18 L0803: 8, L0748: 8, L0794: 5, L0665: 5, L0749: 5, L0438: 4, L0777: 4, L0752: 4, L0731: 4, L0758: 4, H0013: 3, L0157: 3, L0483: 3, H0169: 3, H0591: 3, L0766: 3, L0805: 3, L0653: 3, L0759: 3, S0436: 3, H0556: 3.	14q22.1-q24.1	112262, 182600, 182870, 182870, 182870, 600225, 600225





632	HE2CK47	834924	642	960 - 1127	3239			2, S0045: 2, H0619: 2, H0392: 2, H0156: 2, H0318: 2, H0510: 2, H0264: 2, S0438: 2, L0598: 2, L0764: 2, L0659: 2, S0428: 2, H0521: 2, L0743: 2, L0751: 2, L0750: 2, L0779: 2, L0591: 2, L0592: 2, L0599: 2, S0242: 2, H0624: 1, H0171: 1, L0615: 1, S0114: 1, S0430: 1, H0650: 1, S0444: 1, H0580: 1, S0046: 1, H0351: 1, H0592: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, L0021: 1, H0036: 1, H0581: 1, H0251: 1, H0309: 1, H0596: 1, H0545: 1, H0014: 1, H0051: 1, S0051: 1, S6028: 1, H0687: 1, S0003: 1, H0428: 1, H0622: 1, H0617: 1, L0055: 1, H0032: 1, S0036: 1, H0135: 1, H0090: 1, H0272: 1, H0494: 1, H0334: 1, H0560: 1, S0344: 1, H0538: 1, S0422: 1, S0426: 1, L0763: 1, L0646: 1, L0662: 1, L0774: 1, L0806: 1, L0776: 1, L0527: 1, L0493: 1, L0647: 1, L0790: 1, L0666: 1, L0664: 1, H0144: 1, S0374: 1, H0547: 1, H0659: 1, H0670: 1, H0648: 1, H0672: 1, H0539: 1, H0518: 1, S0044: 1, H0555: 1, S0032: 1, L0439: 1, L0745: 1, S0011: 1, H0667: 1, S0192: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and L0600: 1.					
								AR060: 6, AR316: 6, AR089: 6 L0779: 9, L0759: 9, L0752: 6, H0615: 4, L0744: 4, H0013: 3, S0126: 3, L0743: 3, L0777: 3, H0046: 2, L0665: 2, L0748:					

633	HE2CM34	603185	643	175 - 189	3240		2, L0747: 2, L0755: 2, L0757: 2, L0758: 2, S0276: 2, H0171: 1, S0280: 1, H0581: 1, H0135: 1, L0763: 1, L0639: 1, L0794: 1, L0803: 1, L0809: 1, H0144: 1, H0689: 1, L0751: 1, L0749: 1, S0196: 1 and H0008: 1. L0717: 5, L0439: 5, L0794: 4, L0803: 4, S0222: 3, L0770: 3, L0766: 3, L0438: 3, L0779: 3, L0777: 3, L0755: 3, H0624: 2, L0761: 2, L0764: 2, L0805: 2, L0809: 2, L0519: 2, L0666: 2, H0659: 2, H0436: 2, L0754: 2, L0747: 2, L0750: 2, L0756: 2, L0758: 2, L0588: 2, L0599: 2, L0604: 2, H0171: 1, H0657: 1, H0663: 1, H0305: 1, S0420: 1, S0376: 1, H0580: 1, H0639: 1, H0441: 1, H0497: 1, L0021: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, S0474: 1, H0194: 1, T0110: 1, H0123: 1, T0003: 1, H0024: 1, S6028: 1, H0266: 1, H0328: 1, H0553: 1, H0090: 1, S0112: 1, S0422: 1, H0529: 1, L0501: 1, L5575: 1, L0667: 1, L0642: 1, L0644: 1, L0521: 1, L0767: 1, L0650: 1, L0774: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0520: 1, H0683: 1, H0648: 1, H0672: 1, H0539: 1, S0044: 1, H0555: 1, L0748: 1, L0740: 1, L0745: 1, L0749: 1, L0786: 1, L0780: 1, L0591: 1, S0011: 1, H0665: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0422: 1. H0170: 1	11pter-p15.5	
634	HE2DG46	731958	644	132 - 224	3241				

635	HE2DI16	604029	645	95 - 157	3242		H0170: 1 and L0766: 1.		
636	HE2DJ84	746643	646	842 - 1021	3243	Gln-17 to Arg-22, Gln-43 to Asp-52, Glu-54 to Lys-59.	AR060: 11, AR316: 10, AR089: 9 L0748: 14, L0740: 11, L0766: 6, L0439: 6, L0757: 5, L0758: 5, L0770: 4, L0747: 4, L0749: 4, L0755: 4, L0759: 4, L0581: 4, S0010: 3, S0360: 2, H0411: 2, H0587: 2, H0013: 2, H0575: 2, H0318: 2, L0483: 2, H0169: 2, L0764: 2, L0771: 2, L0768: 2, L0774: 2, L0775: 2, L0806: 2, L0745: 2, L0592: 2, S0026: 2, H0624: 1, H0170: 1, H0341: 1, S0212: 1, H0661: 1, S0358: 1, H0675: 1, S0408: 1, S0045: 1, H0004: 1, S0049: 1, H0597: 1, H0009: 1, H0050: 1, H0014: 1, H0061: 1, H0615: 1, H0032: 1, H0674: 1, H0591: 1, H0040: 1, H0413: 1, S0438: 1, S0440: 1, H0509: 1, H0529: 1, L0761: 1, L0372: 1, L0773: 1, L0662: 1, L0767: 1, L0803: 1, L0804: 1, L0651: 1, L0784: 1, L0634: 1, L0659: 1, L0664: 1, L0665: 1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0435: 1, H0670: 1, H0521: 1, H0696: 1, S0028: 1, S0206: 1, L0751: 1, L0754: 1, L0750: 1, L0779: 1, L0777: 1, L0753: 1, H0543: 1 and H0423: 1.	12p11	
637	HE2DY23	877491	647	175 - 267	3244		L0748: 11, L0758: 11, L0439: 5, L0759: 5, L0594: 5, H0556: 4, L0769: 4, S0442: 3, H0036: 3, H0083: 3, H0100: 3, L0662: 3, L0666: 3, L0756: 3, L0752: 3, H0170: 2, S0045: 2, H0644: 2, H0628: 2, H0124: 2.		

638	HE2DY25	844237	648	493 - 597	3245				H0038: 2, H0551: 2, L0564: 2, S0422: 2, L0770: 2, L0646: 2, L0771: 2, L0766: 2, L0649: 2, L0653: 2, L0659: 2, H0539: 2, L0740: 2, L0747: 2, L0749: 2, L0753: 2, L0757: 2, S0436: 2, L0584: 2, L0599: 2, L0595: 2, H0686: 1, S0040: 1, H0295: 1, S0212: 1, H0255: 1, H0661: 1, S0444: 1, S0360: 1, H0580: 1, H0729: 1, S0046: 1, L0717: 1, S0278: 1, S0222: 1, H0587: 1, H0333: 1, H0427: 1, H0156: 1, H0575: 1, H0004: 1, H0253: 1, H0545: 1, H0046: 1, H0045: 1, H0051: 1, S0388: 1, H0594: 1, H0428: 1, H0673: 1, H0169: 1, H0674: 1, H0135: 1, H0040: 1, H0268: 1, L0351: 1, T0041: 1, S0382: 1, S0306: 1, S0440: 1, H0509: 1, S0144: 1, S0426: 1, H0743: 1, L0369: 1, L0638: 1, L0764: 1, L0765: 1, L0768: 1, L0388: 1, L0774: 1, L0657: 1, L5623: 1, L0790: 1, L0663: 1, L0664: 1, H0144: 1, L0438: 1, H0519: 1, H0648: 1, H0521: 1, H0522: 1, S0013: 1, H0436: 1, S014: 1, S0027: 1, L0751: 1, L0779: 1, H0543: 1 and L0600: 1.	
639	HE2EE80	847057	649	181 - 315	3246				L0748: 6, H0144: 2, L0758: 2, H0624: 1, H0170: 1, S0418: 1, S0360: 1, H0013: 1, S0010: 1, H0044: 1, S0003: 1, H0031: 1, S0002: 1, L0666: 1, L0438: 1, S0126: 1, S0146: 1, H0478: 1, S0027: 1, L0439: 1, L0749: 1, L0757: 1 and S0026: 1.	

								2, L0439: 2, L0751: 2, H0170: 1, S0212: 1, T0008: 1, H0009: 1, H0375: 1, H0038: 1, L0662: 1, L0786: 1 and S0196: 1.			
640	HE2EH45	581520	650	213 - 263	3247			H0170: 1	lp		103720, 157147,
641	HE2FE89	780314	651	117 - 323	3248			L0604: 10, L0485: 9, L0622: 3, L0520: 3, L0809: 3, H0170: 2, H0599: 2, L0471: 2, S0366: 2, L0791: 2, S0330: 2, L0747: 2, L0750: 2, L0777: 2, L0759: 2, H0624: 1, H0171: 1, H0196: 1, H0373: 1, S0364: 1, L0803: 1, L0375: 1, L0526: 1, H0696: 1, L0748: 1, L0749: 1, L0779: 1 and L0731: 1.	4q22		163890, 173910, 248510, 252500, 252500
642	HE2FR49	714456	652	96 - 212	3249	Met-1 to Gly-9.		H0486: 2, H0171: 1, H0657: 1, S0360: 1, H0587: 1, H0013: 1, H0318: 1, H0688: 1, L0793: 1, L0748: 1, L0439: 1 and L0759: 1.			
643	HE2GB19	566808	653	374 - 463	3250			H0585: 14, L0761: 6, L0751: 5, H0141: 4, L0769: 4, H0620: 3, H0135: 3, L0747: 3, L0779: 3, S0420: 2, H0441: 2, S0049: 2, H0052: 2, H0012: 2, H0688: 2, H0102: 2, L0770: 2, L0638: 2, L0665: 2, H0547: 2, S0126: 2, H0670: 2, S0380: 2, L0748: 2, L0439: 2, L0749: 2, L0750: 2, S0436: 2, L0595: 2, H0170: 1, H0171: 1, S0040: 1, H0717: 1, H0341: 1, S0029: 1, H0254: 1, H0255: 1, S0418: 1, S0444: 1, S0476: 1, H0406: 1, H0550: 1, S0222: 1, H0370: 1, H0587: 1, H0244: 1, H0427: 1, H0581: 1, H0546: 1, H0086: 1, H0566: 1, H0024: 1, H0200: 1, H0051: 1, T0010: 1, H0292: 1, S0364: 1, S0036: 1, H0551: 1, S0038: 1.			

644	HE2GO81	688043	654	79 - 111	3251				1, S0386: 1, H0494: 1, S0422: 1, L5565: 1, L5566: 1, L0800: 1, L0771: 1, L0662: 1, L0363: 1, L0364: 1, L0766: 1, L0561: 1, L0522: 1, L0804: 1, L0774: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0789: 1, L0793: 1, L0666: 1, H0144: 1, H0689: 1, H0682: 1, H0658: 1, S0328: 1, H0539: 1, H0521: 1, S0404: 1, S0027: 1, S0028: 1, L0741: 1, L0777: 1, L0731: 1, L0758: 1, L0597: 1, L0581: 1, S0458: 1, S0460: 1 and S0396: 1.	2p14-q14.3	203800
645	HE2HB61	798113	655	154 - 249	3252				AR060: 5, AR316: 4, AR089: 4 H0651: 6, L0745: 4, S0358: 3, L0794: 3, L0749: 3, S0003: 2, L0766: 2, L0803: 2, H0518: 2, L0485: 2, H0171: 1, H0125: 1, S0354: 1, S0444: 1, S0360: 1, S0410: 1, H0600: 1, H0586: 1, H0497: 1, H0013: 1, H0427: 1, H0599: 1, L0471: 1, H0024: 1, H0179: 1, L0455: 1, H0551: 1, S0422: 1, L0773: 1, L0804: 1, L0650: 1, L0666: 1, S0216: 1, H0547: 1, H0519: 1, H0670: 1, S0328: 1, H0478: 1, L0748: 1, L0751: 1, L0754: 1, L0746: 1, L0755: 1, H0445: 1, S0242: 1, H0543: 1, H0423: 1 and H0506: 1.		
646	HE2HB64	695713	656	225 - 335	3253				AR089: 78, AR316: 58, AR060: 40 H0170: 1 S0126: 6, H0046: 4, S0003: 3, L0794: 3, L0766: 3, L0439: 3, L0747: 3, L0759: 3, S0278: 1	8p22-q21.13	148370, 238600, 238600, 238600, 600143,

647	HE2HF76	637594	657	111 - 239	3254			2, L0805: 2, L0740: 2, L0745: 2, L0755: 2, L0595: 2, H0624: 1, H0170: 1, S0116: 1, H0341: 1, H0638: 1, S0420: 1, S0442: 1, S0358: 1, H0437: 1, H0574: 1, H0036: 1, H0581: 1, L0040: 1, H0457: 1, H0373: 1, S0214: 1, H0039: 1, H0031: 1, H0598: 1, H0090: 1, H0616: 1, H0551: 1, H0560: 1, H0646: 1, S0426: 1, L0769: 1, L0662: 1, L0803: 1, L0776: 1, L0438: 1, H0659: 1, H0658: 1, H0648: 1, S0152: 1, H0521: 1, H0522: 1, L0780: 1, L0758: 1, S0436: 1 and S0242: 1.		601385, 602629
648	HE2ID09	815657	658	1331 - 1402	3255			S0406: 3, L0759: 3, H0170: 2, H0457: 2, L0646: 2, L0777: 2, H0051: 1, H0428: 1, H0032: 1, H0695: 1, L0763: 1, L0641: 1, H0547: 1, H0696: 1 and L0439: 1.		
649	HE2IE66	830436	659	861 - 905	3256			AR060: 6, AR316: 4, AR089: 2, H0170: 1 and L0748: 1.	15	
								L0438: 7, L0439: 6, L0747: 4, L0005: 3, S0360: 3, H0547: 3, S0222: 2, L0105: 2, S0002: 2, S0426: 2, L0794: 2, L0659: 2, L0664: 2, L0754: 2, L0758: 2, H0506: 2, H0170: 1, H0171: 1, S0212: 1, H0580: 1, H0455: 1, H0069: 1, H0098: 1, S0010: 1, H0581: 1, H0263: 1, H0009: 1, L0471: 1, H0099: 1, S0003: 1, H0039: 1, S0036: 1, H0090: 1, H0591: 1, S0422: 1, L0763: 1, L0638: 1, L0372: 1, L0646: 1, L0773: 1, L0662: 1, L0766: 1, L0649: 1, L0803: 1, L0804: 1.		

650	HE2NW57	638615	660	101 - 457	3257	Leu-47 to Gly-57, Pro-60 to Asn-70, Gln-77 to Glu-82, Arg-102 to Arg-108.	1, L0651: 1, L0784: 1, L0776: 1, L0647: 1, S0052: 1, H0144: 1, H0682: 1, H0659: 1, H0521: 1, H0555: 1, L0742: 1, L0750: 1, L0756: 1, H0445: 1, S0434: 1 and S0452: 1. AR060: 9, AR316: 8, AR089: 8 H0170: 1 and L0589: 1.			
651	HE2OA95	637595	661	1224 - 1331	3258		AR223: 26, AR216: 25, AR089: 24, AR224: 23, AR222: 22, AR214: 22, AR215: 21, AR308: 21, AR210: 21, AR272: 21, AR221: 19, AR235: 18, AR211: 17, AR261: 17, AR225: 17, AR309: 17, AR217: 16, AR311: 16, AR172: 16, AR196: 16, AR168: 16, AR274: 15, AR169: 15, AR171: 15, AR199: 15, AR316: 15, AR188: 14, AR170: 14, AR264: 13, AR295: 12, AR312: 11, AR285: 11, AR165: 11, AR236: 11, AR189: 11, AR247: 11, AR164: 11, AR263: 11, AR166: 10, AR219: 10, AR161: 10, AR162: 10, AR200: 10, AR297: 9, AR163: 9, AR293: 9, AR218: 9, AR288: 9, AR262: 9, AR296: 9, AR060: 8, AR191: 8, AR291: 8, AR181: 8, AR203: 8, AR177: 8, AR255: 7, AR275: 7, AR231: 7, AR096: 7,	2q32.3		600258, 602087



652	HE2OC39	587266	662	79 - 84	3259				AR190: 7, AR313: 7, AR240: 7, AR174: 6, AR290: 6, AR287: 6, AR173: 6, AR175: 6, AR286: 6, AR183: 5, AR270: 5, AR269: 5, AR267: 5, AR258: 5, AR282: 5, AR239: 5, AR294: 5, AR179: 5, AR289: 5, AR256: 5, AR268: 5, AR257: 5, AR104: 4, AR061: 4, AR266: 4, AR230: 4, AR178: 4, AR299: 4, AR234: 4, AR176: 4, AR232: 4, AR185: 4, AR238: 4, AR300: 4, AR229: 4, AR237: 3, AR180: 3, AR277: 3, AR260: 3, AR226: 3, AR233: 3, AR227: 3, AR182: 3, AR228: 2, AR033: 2, AR055: 2, AR197: 2, AR195: 2, AR205: 1, AR201: 1 L0005: 4, L0439: 4, H0013: 3, H0674: 3, H0144: 3, H0170: 2, L0157: 2, L0435: 2, L0540: 2, L0438: 2, L0756: 2, L0759: 2, S0045: 1, H0599: 1, H0178: 1, H0572: 1, H0050: 1, H0024: 1, H0051: 1, S6028: 1, L0142: 1, H0673: 1, H0616: 1, H0551: 1, H0623: 1, L0809: 1, L0666: 1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0539: 1, H0696: 1, H0694: 1, L0742: 1, L0777: 1, L0758: 1, L0592: 1 and L0595: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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653	HE2PB61	847379	663	19 - 90	3260		AR251: 36, AR274: 24, AR263: 17, AR265: 17, AR310: 16, AR273: 16, AR313: 15, AR053: 15, AR309: 13, AR312: 13, AR218: 12, AR052: 12, AR243: 11, AR096: 11, AR213: 11, AR219: 11, AR314: 10, AR247: 10, AR271: 10, AR315: 9, AR089: 9, AR266: 9, AR280: 9, AR248: 9, AR299: 8, AR282: 8, AR253: 8, AR290: 8, AR184: 7, AR316: 7, AR283: 7, AR240: 7, AR275: 7, AR268: 7, AR177: 6, AR256: 6, AR175: 6, AR289: 6, AR291: 6, AR285: 6, AR267: 6, AR060: 6, AR182: 6, AR292: 6, AR281: 6, AR249: 6, AR183: 6, AR286: 5, AR186: 5, AR284: 5, AR295: 5, AR293: 5, AR270: 5, AR296: 5, AR185: 4, AR192: 4, AR104: 4, AR205: 4, AR269: 4, AR277: 4, AR055: 4, AR258: 4, AR226: 4, AR039: 3, AR294: 3, AR232: 3, AR298: 3, AR231: 3, AR033: 3, AR259: 3, AR198: 3, AR061: 3, AR237: 3, AR229: 3, AR238: 3, AR300: 3, AR234: 2, AR227: 2, AR233: 2, AR179: 2,		
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654	HE2PJ43	847380	664	69 - 410	3261			AR204: 2, AR206: 1, AR244: 1 L0764: 3, H0170: 2, S0354: 2, L0775: 2, L0517: 2, L0665: 2, H0144: 2, S0328: 2, H0171: 1, S0444: 1, H0411: 1, T0040: 1, H0013: 1, L0105: 1, H0052: 1, H0327: 1, H0188: 1, L0627: 1, L0662: 1, L0375: 1, L0653: 1, L0384: 1, S0432: 1, L0743: 1, L0747: 1, L0779: 1, L0731: 1 and L0759: 1.		
655	HE2PJ56	721283	665	142 - 270	3262			L0794: 7, L0777: 6, L0438: 5, L0791: 3, L0439: 3, S0408: 2, L0769: 2, L0363: 2, L0768: 2, L0803: 2, L0805: 2, L0657: 2, L0809: 2, L0666: 2, S0328: 2, L0748: 2, L0756: 2, S0424: 2, H0171: 1, S0442: 1, H0370: 1, H0574: 1, L0021: 1, S0366: 1, H0488: 1, L0372: 1, L0662: 1, L0375: 1, L0776: 1, H0144: 1, L0352: 1, H0539: 1, S0406: 1, L0747: 1, L0749: 1, L0755: 1, L0731: 1, L0759: 1, L0593: 1, L0361: 1 and S0276: 1.		
656	HE6CJ41	604908	666	231 - 263	3263			H0624: 3, H0171: 2, L0777: 2, H0170: 1, S0040: 1, H0156: 1, H0328: 1, S0126: 1, H0539: 1 and L0731: 1.		
657	HE6DC37	658675	667	107 - 178	3264			AR089: 12, AR316: 10, AR060: 7 H0341: 1 and H0100: 1. H0617: 5, H0606: 2, L0744: 2, L0779: 2, H0295: 1, H0100: 1, S0440: 1, H0026: 1, L0762: 1, L0504: 1, L0769: 1, L0764: 1, L0662: 1, L0649: 1, L0804: 1, L0787: 1, L0666: 1, L0663: 1, H0520: 1, L0748: 1, L0751:	20	

658	HE6DN83	695715	668	257 - 298	3265			1, L0752: 1 and S0436: 1. AR060: 7, AR316: 6, AR089: 5 H0271: 21, H0179: 11, H0457: 8, H0584: 6, H0521: 5, L0748: 4, L0777: 4, H0265: 3, H0585: 3, H0529: 3, L0776: 3, L0749: 3, L0779: 3, H0550: 2, H0087: 2, L0662: 2, L0766: 2, S0052: 2, L0438: 2, S0126: 2, L0747: 2, L0752: 2, H0543: 2, H0556: 1, H0167: 1, S0040: 1, H0294: 1, S0116: 1, H0341: 1, H0638: 1, S0360: 1, H0586: 1, H0497: 1, L0021: 1, H0231: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0057: 1, H0416: 1, H0687: 1, H0290: 1, H0030: 1, L0455: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0100: 1, S0426: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0378: 1, L0806: 1, L0809: 1, L0663: 1, L0665: 1, S0428: 1, S0053: 1, S0216: 1, H0520: 1, H0682: 1, H0670: 1, H0518: 1, H0694: 1, H0134: 1, H0576: 1, L0754: 1, L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0011: 1, H0136: 1, H0423: 1 and H0422: 1.	1	
659	HE6EI30	847381	669	48 - 308	3266	Trp-47 to Arg-52.		AR060: 9, AR316: 9, AR089: 8 H0100: 1, S0053: 1 and S0216: 1.	17p13.2	
660	HE6ET70	732156	670	176 - 283	3267			H0615: 1, H0688: 1, H0100: 1, L0530: 1, L0532: 1, L0663: 1, L0748: 1 and L0779: 1.		
661	HE6GO65	647591	671	364 - 417	3268			AR060: 8, AR316: 7, AR089: 6 L0626: 2, L0512: 2, L0439:	17q12-q21	109270, 109270, 109270, 109270, 109270, 113705,

662	HE8AN83	833052	672	285 - 362	3269		2, L0752: 2, H0171: 1, S6024: 1, L0021: 1, H0565: 1, H0100: 1, L0805: 1, L0636: 1, L0791: 1, H0547: 1, L0741: 1, L0745: 1, L0779: 1, L0731: 1 and L0757: 1.		113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 180240, 182138, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 600881, 601363, 601687, 601844, 601954
663	HE8AU68	821324	673	68 - 124	3270		H0013: 1 and H0124: 1. S0192: 5, L0471: 4, H0547: 3, H0519: 3, L0740: 3, L0747: 3, H0543: 3, S0418: 2, H0553: 2, L0439: 2, L0754: 2, L0599: 2, T0002: 1, S0212: 1, H0671: 1, S0358: 1, S0360: 1, H0637: 1, H0392: 1, T0114: 1, H0013: 1, H0581: 1, T0110: 1, H0015: 1, H0083: 1, H0510: 1, S0250: 1, S0003: 1, H0031: 1, H0212: 1, H0090: 1, H0551: 1, H0494: 1, L0475: 1, S0450: 1, H0132: 1, H0633: 1, S0142: 1, H0529: 1, L0769: 1, L0642: 1, L0662: 1, L0766: 1, L0803: 1, L0659: 1, L0665: 1, H0520: 1, S0126: 1, H0689: 1, H0521: 1, H0522: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0779: 1, L0597: 1, L0591: 1, L0485: 1, L0608: 1, S0011: 1, S0026: 1, S0194: 1, H0542: 1 and H0423: 1.		
664	HE8BE20	815787	674	289 - 645	3271	Lys-17 to Cys-33.	AR060: 3, AR316: 2, AR089: 1		

665	HE8BP05	845980	675	202 - 246	3272				L0747: 21, L0731: 16, L0740: 12, L0748: 9, L0759: 8, L0794: 5, L0809: 5, L0439: 5, L0803: 4, S0028: 4, L0779: 4, L0757: 4, H0713: 3, H0427: 3, S0010: 3, L0598: 3, L0804: 3, L0805: 3, L0745: 3, H0583: 2, H0438: 2, H0486: 2, S0280: 2, H0575: 2, H0251: 2, H0428: 2, L0637: 2, L0764: 2, L0662: 2, L0774: 2, L0792: 2, L0664: 2, S0374: 2, L0749: 2, L0750: 2, L0588: 2, L0362: 2, H0171: 1, H0717: 1, S0402: 1, S0624: 1, S0116: 1, S0298: 1, H0661: 1, S0444: 1, S0360: 1, H0329: 1, H0632: 1, H0013: 1, T0082: 1, S0049: 1, H0434: 1, H0546: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, S0051: 1, S0250: 1, H0328: 1, H0321: 1, H0040: 1, H0551: 1, L0369: 1, L0769: 1, L0772: 1, L0648: 1, L0521: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0547: 1, L0783: 1, L0666: 1, L0663: 1, L0565: 1, H0711: 1, H0660: 1, S0027: 1, L0744: 1, L0752: 1, L0758: 1, S0434: 1, L0480: 1, L0590: 1, L0485: 1, S0192: 1 and S0196: 1.		
666	HE8BP64	847059	676	208 - 1350	3273	Thr-33 to Ala-41, Leu-95 to Arg-100, Asn-243 to Gln-249, Pro-287 to Asn-293, Val-332 to Gly-341, Thr-344 to Ile-355,	AR089: 13, AR316: 11, AR060: 8 H0013: 1 AR218: 23, AR253: 19, AR219: 18, AR270: 14, AR248: 12, AR312: 11, AR309: 10, AR052: 9, AR241: 9, AR184: 9, AR183: 8, AR290: 8,	9			

Phe-370 to Thr-378.	AR186: 8, AR269: 8, AR249: 8, AR273: 8, AR274: 8, AR310: 7, AR284: 7, AR313: 7, AR175: 7, AR285: 7, AR296: 6, AR268: 6, AR185: 6, AR192: 6, AR244: 6, AR240: 6, AR286: 6, AR182: 6, AR104: 6, AR053: 6, AR243: 6, AR298: 6, AR299: 5, AR265: 5, AR294: 5, AR293: 5, AR292: 5, AR275: 5, AR213: 5, AR282: 5, AR295: 5, AR194: 5, AR266: 5, AR033: 4, AR055: 4, AR238: 4, AR258: 4, AR289: 4, AR060: 4, AR198: 4, AR206: 4, AR096: 4, AR291: 4, AR226: 4, AR316: 4, AR234: 4, AR300: 4, AR061: 4, AR247: 4, AR237: 4, AR267: 4, AR177: 4, AR251: 4, AR233: 3, AR204: 3, AR231: 3, AR246: 3, AR227: 3, AR229: 3, AR089: 3, AR283: 3, AR179: 3, AR205: 3, AR259: 3, AR202: 3, AR277: 3, AR256: 2, AR232: 2, AR263: 2 L0766: 9, L0439: 8, L0758: 8, H0521: 6, L0770: 5, L0665: 5, L0754: 5, L0749: 5, L0756: 5, L0752: 5, L0663: 4, L0740: 4, H0575: 3, H0590: 3, H0004:
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667	HE8BQ49	589443	677	133 - 168	3274		3, S0126: 3, L0751: 3, L0747: 3, L0757: 3, H0657: 2, L0415: 2, S0356: 2, H0486: 2, S0003: 2, S0214: 2, H0615: 2, H0644: 2, H0412: 2, H0059: 2, S0422: 2, L0769: 2, L0800: 2, L0771: 2, L0662: 2, L0649: 2, L0803: 2, L0657: 2, L0659: 2, L0666: 2, L0438: 2, H0547: 2, H0555: 2, L0750: 2, L0731: 2, L0759: 2, S0194: 2, H0556: 1, T0002: 1, S0040: 1, H0716: 1, S0114: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0408: 1, S0045: 1, S0046: 1, S0132: 1, S0476: 1, S0278: 1, H0369: 1, H0632: 1, H0013: 1, H0156: 1, H0002: 1, H0036: 1, S0010: 1, H0052: 1, L0738: 1, H0545: 1, H0046: 1, L0471: 1, H0020: 1, H0051: 1, H0083: 1, H0622: 1, H0030: 1, H0617: 1, L0055: 1, H0708: 1, H0316: 1, H0038: 1, T0041: 1, H0641: 1, S0144: 1, H0529: 1, L0763: 1, L0764: 1, L0794: 1, L0389: 1, L0650: 1, L0805: 1, L0809: 1, L0543: 1, L0664: 1, S0374: 1, H0690: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, H0631: 1, S014: 1, L0755: 1, S0434: 1, S0011: 1, H0665: 1, S0242: 1, S0276: 1 and H0423: 1.	
668	HE8BR18	731933	678	207 - 302	3275		H0013: 2 L0766: 10, L0748: 4, H0657: 3, H0013: 3, H0622: 3, L0750: 3, H0266: 2, L0378: 2, L0666: 2, L0777: 2, L0731: 2, L0758: 2, L0362: 2, L0600: 2, S0132: 1, H0611: 1, H0309: 1, H0057: 1	



669	HE8BR30	839469	679	168 - 254	3276				1, H0494: 1, H0560: 1, H0625: 1, L0598: 1, L0769: 1, L0773: 1, L0662: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0655: 1, L0527: 1, L0659: 1, L0532: 1, L0663: 1, H0684: 1, H0521: 1, L0439: 1, L0740: 1, L0756: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1, L0595: 1 and S0026: 1.		
670	HE8BT58	806144	680	2371 - 2688	3277	Ser-24 to Glu-31, Asn-39 to Trp-45, Pro-75 to Ser-101.			H0013: 3 AR089: 25, AR316: 17, AR060: 9 L0731: 12, L0747: 9, H0651: 5, L0759: 5, H0644: 4, H0013: 3, L0748: 3, L0439: 3, L0779: 3, H0575: 2, H0052: 2, H0327: 2, H0050: 2, H0083: 2, L0769: 2, L0662: 2, L0438: 2, H0539: 2, L0743: 2, L0750: 2, L0588: 2, H0716: 1, L0002: 1, L0443: 1, S0001: 1, S0360: 1, H0645: 1, H0411: 1, H0587: 1, H0333: 1, H0486: 1, S0010: 1, S0050: 1, H0051: 1, H0428: 1, H0553: 1, H0032: 1, L0455: 1, S0036: 1, H0038: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, L0770: 1, L0637: 1, L0766: 1, L0649: 1, L0774: 1, L0776: 1, L0655: 1, L0659: 1, L0783: 1, L0529: 1, L0790: 1, L0791: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0670: 1, H0672: 1, H0696: 1, S3014: 1, L0741: 1, L0744: 1, L0757: 1, L0608: 1 and S0398: 1.	11q25	602782
671	HE8BU60	751704	681	244 - 312	3278				L0663: 7, L0766: 2, S6024: 1, H0592: 1, H0013: 1, H0156: 1, H0052: 1, L0787: 1, H0144: 1.		

								1, L0742: 1, L0745: 1 and L0589: 1.			
672	HE8CA13	761717	682	111 - 230	3279			L0771: 5, L0766: 4, L0655: 3, L0747: 3, L0752: 3, L0804: 2, L0779: 2, H0657: 1, S0444: 1, S0045: 1, L0717: 1, H0600: 1, H0013: 1, H0042: 1, H0150: 1, H0373: 1, L0369: 1, L0761: 1, L0659: 1, L0791: 1, L0663: 1, H0670: 1, L0754: 1, L0731: 1, L0758: 1, H0445: 1 and S0436: 1.			
673	HE8CC34	753266	683	163 - 249	3280			AR089: 26, AR316: 19, AR060: 14 H0013: 1, H0266: 1 and H0039: 1.			
674	HE8CH08	831849	684	347 - 457	3281			AR089: 8, AR316: 7, AR060: 6 S0360: 4, S0007: 3, S0222: 3, L0776: 3, L0731: 3, H0013: 2, H0599: 2, H0399: 2, S0003: 2, L0662: 2, L0809: 2, H0648: 2, L0747: 2, L0779: 2, L0752: 2, L0759: 2, H0624: 1, S0040: 1, H0656: 1, H0341: 1, S0410: 1, H0610: 1, H0574: 1, H0632: 1, T0060: 1, H0069: 1, H0575: 1, T0001: 1, H0046: 1, H0014: 1, H0594: 1, S0250: 1, H0428: 1, H0622: 1, H0553: 1, H0124: 1, H0040: 1, H0616: 1, H0413: 1, H0623: 1, H0625: 1, S0438: 1, S0142: 1, H0529: 1, L0637: 1, L0771: 1, L0803: 1, L0655: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0310: 1, H0670: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, H0478: 1, L0777: 1, L0753: 1, L0758: 1, L0592: 1, S0026: 1,	6p22-p23	125264, 248611, 600511, 601556	

675	HE8DG02	580191	685	235 - 303	3282			S0192: 1, S0242: 1, H0423: 1 and S0424: 1. AR060: 3, AR316: 2, AR089: 1 H0013: 3, L0786: 1 and L0779: 1.		
676	HE8DK52	658676	686	137 - 235	3283			AR104: 41, AR241: 25, AR313: 23, AR033: 21, AR274: 20, AR273: 19, AR186: 19, AR219: 16, AR198: 16, AR053: 16, AR192: 15, AR251: 15, AR243: 14, AR185: 14, AR275: 14, AR052: 14, AR271: 14, AR263: 14, AR218: 14, AR312: 13, AR265: 13, AR089: 13, AR293: 13, AR240: 13, AR244: 13, AR299: 12, AR309: 12, AR247: 12, AR310: 12, AR039: 11, AR205: 11, AR292: 11, AR096: 10, AR229: 10, AR177: 10, AR213: 10, AR316: 10, AR183: 10, AR238: 9, AR226: 9, AR194: 9, AR282: 8, AR258: 8, AR246: 8, AR060: 8, AR204: 8, AR300: 8, AR175: 8, AR249: 8, AR295: 7, AR202: 7, AR206: 7, AR233: 7, AR237: 7, AR231: 7, AR253: 7, AR294: 7, AR179: 7, AR234: 7, AR248: 6, AR061: 6, AR055: 6, AR277: 6, AR296: 6, AR227: 6, AR259: 5, AR267: 5, AR269: 5,		

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678	HE8EN79	801901	688	65 - 130	3285	L0603: 1, AR270: 15, AR296: 12, AR269: 9, AR291: 9, AR266: 7, AR182: 7, AR183: 7, AR274: 7, AR204: 7, AR184: 7, AR241: 6, AR186: 6, AR292: 6, AR286: 6, AR285: 6, AR293: 5, AR313: 5, AR198: 5, AR284: 5, AR268: 5, AR273: 5, AR298: 5, AR312: 5, AR104: 4, AR294: 4, AR309: 4, AR310: 4, AR258: 4, AR295: 4, AR213: 4, AR206: 4, AR052: 4, AR175: 4, AR192: 4, AR275: 4, AR033: 4, AR060: 3, AR096: 3, AR055: 3, AR289: 3, AR256: 3, AR267: 3, AR282: 3, AR238: 3, AR231: 3, AR246: 3, AR299: 3, AR219: 3, AR061: 3, AR185: 3, AR316: 3, AR053: 3, AR218: 3, AR240: 3, AR271: 3, AR253: 3, AR277: 3, AR259: 2, AR226: 2, AR243: 2, AR237: 2, AR290: 2, AR300: 2, AR244: 2, AR089: 2, AR205: 2, AR247: 2, AR179: 2, AR283: 2, AR233: 2, AR039: 2, AR234: 1, AR229: 1, AR232: 1 S0422: 6, L0731: 6, L0766: 5, L0759: 5, H0328: 4, L0663:		
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679	HE8EX86	823176	689	914 - 1129	3286	Ala-65 to Arg-71.	AR060: 12, AR316: 10, AR089: 9 H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8, S0003: 8, H0644: 8, L0439: 8, H0553: 7, L0662: 7, L0659: 7, L0588: 7, H0543: 7, H0038: 6, L0646: 6, H0436: 6, L0740: 6, H0341: 5, S0358: 5.		

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Case	Age	Sex	Duration	Location	Findings	Comments
1	25	M	10 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
2	35	F	5 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
3	45	M	15 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
4	55	F	20 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
5	65	M	25 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
6	75	F	30 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
7	85	M	35 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
8	95	F	40 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
9	105	M	45 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
10	115	F	50 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma

680	HE8FC10	693908	690	315 - 752	3287	Glu-33 to Pro-40, Arg-59 to Pro-69, Gln-74 to Gly-84.	H0004: 1, H0274: 1, S0346: 1, H0310: 1, H0052: 1, L0040: 1, H0597: 1, H0572: 1, H0123: 1, H0050: 1, L0471: 1, H0375: 1, H0594: 1, H0687: 1, H0252: 1, H0039: 1, L0142: 1, H0628: 1, H0617: 1, H0032: 1, H0169: 1, H0674: 1, L0455: 1, H0068: 1, H0598: 1, H0135: 1, H0163: 1, H0634: 1, H0264: 1, H0272: 1, H0413: 1, T0069: 1, T0041: 1, H0625: 1, H0561: 1, S0450: 1, S0438: 1, H0509: 1, H0131: 1, H0654: 1, S0344: 1, S0210: 1, S0002: 1, S0426: 1, L0451: 1, L0520: 1, L0762: 1, L0763: 1, L0761: 1, L0773: 1, L0768: 1, L0386: 1, L0650: 1, L0375: 1, L0651: 1, L0654: 1, L0776: 1, L0527: 1, L0526: 1, L0518: 1, L0519: 1, L0545: 1, L0787: 1, L4501: 1, S0428: 1, S0216: 1, H0144: 1, H0691: 1, S0148: 1, H0519: 1, H0435: 1, H0658: 1, H0660: 1, H0666: 1, S0330: 1, S0152: 1, S0044: 1, H0479: 1, S0390: 1, S3014: 1, L0744: 1, L0750: 1, L0756: 1, L0752: 1, L0755: 1, L0731: 1, H0707: 1, L0594: 1, L0361: 1, S0026: 1, H0665: 1, S0196: 1, H0422: 1, S0458: 1 and H0506: 1.		
680	HE8FC10	693908	690	315 - 752	3287	Glu-33 to Pro-40, Arg-59 to Pro-69, Gln-74 to Gly-84.	L0645: 2, L0764: 2, L0783: 2, H0661: 1, H0013: 1, L0021: 1, H0618: 1, H0318: 1, L0769: 1, L0806: 1, L0543: 1, H0684: 1, L0731: 1, L0758: 1 and L0759: 1.	16	
681	HE8FG15	799520	691	138 - 236	3288		L0748: 38, L0747: 30, L0759: 7, S0360: 5, L0664: 5,	6q23	107470, 107470, 107470, 121014,



682	HE8FG24	733560	692	172 - 525	3289	Lys-36 to Asn-41.	L0779: 5, H0486: 4, S0010: 4, L0758: 4, S0222: 3, L0455: 3, S0386: 3, L0764: 3, L0771: 3, L0775: 3, L0438: 3, S0028: 3, L0749: 3, H0580: 2, H0208: 2, H0013: 2, S0280: 2, H0575: 2, H0251: 2, H0024: 2, S0214: 2, H0428: 2, H0622: 2, H0031: 2, H0644: 2, L0646: 2, L0800: 2, L0773: 2, L0662: 2, L0794: 2, L0804: 2, H0521: 2, L0752: 2, S0026: 2, H0583: 1, H0459: 1, S0418: 1, S0356: 1, H0675: 1, S0045: 1, H0619: 1, H0441: 1, T0039: 1, T0109: 1, H0581: 1, H0263: 1, H0596: 1, H0232: 1, H0327: 1, L0471: 1, H0057: 1, H0375: 1, H0266: 1, S0003: 1, H0688: 1, H0553: 1, H0376: 1, H0163: 1, H0090: 1, H0591: 1, H0616: 1, S0370: 1, S0382: 1, H0529: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0772: 1, L0642: 1, L0767: 1, L0768: 1, L0364: 1, L0766: 1, L0606: 1, L0659: 1, L0809: 1, L0663: 1, H0144: 1, L0565: 1, L0352: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0672: 1, H0539: 1, L0602: 1, H0518: 1, S0146: 1, S3014: 1, L0439: 1, L0745: 1, L0750: 1, L0777: 1, L0755: 1, L0731: 1, H0595: 1, L0596: 1, H0543: 1 and H0352: 1.	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072,
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							AR273: 15, AR267: 13, AR243: 13, AR182: 12, AR241: 10, AR184: 9, AR194: 9, AR246: 8, AR274: 8, AR247: 7, AR186: 7, AR185: 7, AR271: 7, AR244: 7, AR240: 7, AR316: 7, AR204: 7, AR289: 7, AR060: 7, AR205: 6, AR096: 6, AR313: 6, AR284: 5, AR104: 5, AR089: 5, AR202: 5, AR293: 5, AR291: 5, AR206: 5, AR299: 5, AR292: 5, AR266: 5, AR282: 5, AR033: 5, AR061: 5, AR238: 5, AR294: 4, AR055: 4, AR253: 4, AR234: 4, AR312: 4, AR259: 4, AR231: 4, AR052: 4, AR295: 4, AR256: 4, AR249: 4, AR283: 4, AR296: 4, AR179: 4, AR258: 4, AR309: 3, AR298: 3, AR039: 3, AR300: 3, AR053: 3, AR286: 3, AR285: 3, AR229: 3, AR232: 3, AR213: 3, AR233: 3, AR237: 3, AR227: 2, AR277: 2, AR265: 2, AR226: 2 L0805: 3, L0659: 3, S0406: 3, L0779: 3, S0376: 2, H0013: 2, H0553: 2, L0761: 2, L0773: 2, L0662: 2, L0794: 2, L0803: 2, L0665: 2, H0539: 2, S0404: 2, L0748: 2, L0754: 2, L0731:	601145
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683	HE8FK78	852180	693	187 - 279	3290			2, H0265: 1, S0114: 1, H0583: 1, H0650: 1, S0212: 1, S0442: 1, S0354: 1, S0408: 1, H0351: 1, H0592: 1, H0575: 1, S0474: 1, H0581: 1, H0271: 1, H0687: 1, H0622: 1, S0382: 1, S0448: 1, H0529: 1, L0640: 1, L0763: 1, L0764: 1, L0771: 1, L0804: 1, L0776: 1, L0655: 1, L0788: 1, L0666: 1, H0666: 1, H0555: 1, L0751: 1, L0750: 1 and L0759: 1.		
684	HE8FL24	570157	694	251 - 403	3291	Ile-13 to Phe-19, Thr-29 to Tyr-34.		S0358: 4, L0438: 3, L0439: 3, L0527: 2, S0001: 1, S0222: 1, H0392: 1, H0587: 1, T0039: 1, H0013: 1, H0427: 1, S0280: 1, L0157: 1, L0471: 1, H0375: 1, H0266: 1, S0250: 1, L0805: 1, H0144: 1, H0555: 1, L0748: 1, L0779: 1, L0595: 1 and S0276: 1.		
685	HE8FL68	843777	695	223 - 267	3292	Met-1 to Pro-9.		AR060: 5, AR316: 3, AR089: 2, H0013: 1 and H0144: 1.		
								AR266: 5, AR310: 5, AR186: 5, AR198: 4, AR267: 4, AR052: 4, AR246: 4, AR206: 4, AR243: 4, AR269: 3, AR275: 3, AR204: 3, AR055: 3, AR202: 3, AR309: 3, AR053: 3, AR213: 3, AR182: 3, AR249: 3, AR277: 3, AR289: 2, AR033: 2, AR265: 2, AR061: 2, AR283: 2, AR273: 2, AR291: 2, AR299: 2, AR185: 2, AR282: 2, AR296: 2, AR300: 2,		

686	HE8FR53	843807	696	1206 - 1319	3293	Asp-17 to Lys-26.	AR312: 2, AR244: 2, AR247: 2, AR286: 2, AR251: 2, AR313: 2, AR183: 2, AR253: 2, AR205: 2, AR284: 2, AR263: 2, AR241: 1, AR295: 1, AR240: 1, AR270: 1, AR290: 1, AR316: 1, AR089: 1, AR096: 1 H0013: 1	14q21	182600, 232700, 602086, 602616
687	HE8MA27	664484	697	90 - 260	3294	Gln-45 to Gly-50.	S0003: 19, H0013: 10, L0439: 5, L0438: 4, H0635: 3, L0157: 3, L0770: 3, L0766: 3, H0445: 3, H0422: 3, H0069: 2, H0581: 2, S0214: 2, H0591: 2, H0616: 2, S0422: 2, L0598: 2, L0794: 2, L0659: 2, L0636: 2, L0666: 2, H0144: 2, L0748: 2, L0759: 2, H0556: 1, H0657: 1, S0001: 1, S0400: 1, L0005: 1, L0717: 1, S0222: 1, H0586: 1, L0021: 1, H0004: 1, H0565: 1, H0271: 1, H0416: 1, H0644: 1, S0036: 1, H0090: 1, H0040: 1, H0634: 1, T0042: 1, L0638: 1, L0662: 1, L0626: 1, L0803: 1, L0375: 1, L0806: 1, L0776: 1, L0661: 1, L0647: 1, L0787: 1, L0789: 1, H0702: 1, H0539: 1, H0521: 1, L0744: 1, L0740: 1, L0747: 1, L0786: 1, L0758: 1 and S0031: 1. L0438: 7, L0740: 4, H0416: 3, L0803: 3, L0777: 3, S0005: 2, H0544: 2, H0271: 2, H0090: 2, H0038: 2, H0551: 2, S0440: 2, L0766: 2, L0809: 2, H0436: 2, L0748: 2, L0439: 2, L0754: 2, L0758: 2, L0366: 2, H0265:	7q21.1-q31.1	126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447

688	HE8MG56	838064	698	276 - 548	3295	Ser-43 to Phe-53.	1, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0360: 1, S0408: 1, S0132: 1, S0476: 1, H0550: 1, S0222: 1, H0632: 1, H0492: 1, H0013: 1, L0021: 1, H0599: 1, S0049: 1, H0123: 1, H0375: 1, H0266: 1, H0622: 1, H0553: 1, H0383: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, S0426: 1, L0769: 1, L0641: 1, L0644: 1, L0771: 1, L0773: 1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1.		
689	HE8MQ01	886800	699	127 - 240	3296	Arg-31 to Asn-37.	AR060: 3, AR316: 2, AR089: 1 H0013: 3 H0729: 1, H0392: 1, H0013: 1, H0318: 1, H0009: 1, H0328: 1, H0615: 1, T0041: 1, L0662: 1, L0768: 1, L0522: 1, H0436: 1, H0444: 1 and S0308: 1.		
690	HE8MS43	799521	700	1387 - 1407	3297		L0766: 9, L0439: 6, H0422: 6, S0328: 4, L0752: 4, H0171: 3, H0486: 3, H0046: 3, L0794: 3, L0803: 3, L0666: 3, H0144: 3, H0670: 3, H0483: 2, H0013: 2, H0036: 2, H0052: 2, H0375: 2, H0090: 2, H0551: 2, S0422: 2, L0763: 2, L0769: 2, L0646: 2, L0662: 2, L0768: 2, L0659: 2, L0809: 2, L0789: 2, L0665: 2, H0547: 2, H0658: 2, H0648: 2, H0696: 2, S0206: 2, L0747: 2, L0756: 2, L0758: 2, H0423: 2, S0116: 1, H0662: 1, S0418: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0612: 1, H0587: 1, T0114: 1, H0635: 1, H0427: 1		

691	HE8MY77	847382	701	61 - 159	3298			1, H0590: 1, H0004: 1, H0253: 1, H0041: 1, H0567: 1, H0123: 1, L0471: 1, H0024: 1, S0628: 1, H0266: 1, H0687: 1, S0003: 1, H0252: 1, H0615: 1, H0688: 1, H0622: 1, H0030: 1, L0055: 1, H0591: 1, H0040: 1, H0616: 1, H0379: 1, S0464: 1, S0450: 1, S0440: 1, H0132: 1, S0210: 1, L0761: 1, L0667: 1, L0764: 1, L0650: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0663: 1, L0664: 1, L0438: 1, H0539: 1, H0522: 1, H0478: 1, S0032: 1, L0748: 1, L0780: 1, L0753: 1, H0445: 1, S0434: 1, L0608: 1, S0026: 1 and S0452: 1. L0747: 28, L0731: 13, L0740: 12, L0770: 8, L0776: 8, L0766: 5, L0809: 5, L0754: 5, L0750: 5, L0756: 5, L0752: 5, L0757: 5, S0358: 4, L0662: 4, L0664: 4, L0748: 4, L0439: 4, L0759: 4, L0362: 4, S0282: 3, S0360: 3, H0632: 3, H0013: 3, H0052: 3, H0553: 3, L0769: 3, L0666: 3, L0749: 3, L0758: 3, L0601: 3, S0212: 2, S0132: 2, H0411: 2, S0222: 2, H0587: 2, H0574: 2, H0486: 2, H0327: 2, S0388: 2, T0010: 2, H0266: 2, H0413: 2, H0647: 2, L0598: 2, L0794: 2, L0774: 2, L0659: 2, L0783: 2, L0519: 2, H0144: 2, L0438: 2, H0547: 2, H0539: 2, S0152: 2, L0742: 2, L0745: 2, L0779: 2, L0755: 2, S0260: 2, H0665: 2, H0624: 1, H0346: 1, H0661: 1, S0376: 1, S0408: 1, S0046: 1, H0431: 1, H0392: 1.		
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692	HE8NC81	862015	702	74 - 115	3299			<p>1, H0357: 1, H0592: 1, H0427: 1, S0010: 1, H0123: 1, H0024: 1, L0146: 1, H0014: 1, H0373: 1, S0051: 1, S6028: 1, H0029: 1, H0039: 1, H0031: 1, L0142: 1, H0674: 1, H0376: 1, H0591: 1, H0551: 1, H0488: 1, H0412: 1, L0351: 1, H0560: 1, H0561: 1, S0438: 1, S0210: 1, S0002: 1, S0426: 1, UNKWN: 1, H0529: 1, L0369: 1, L0763: 1, L0796: 1, L0772: 1, L0646: 1, L0764: 1, L0771: 1, L0648: 1, L0363: 1, L0767: 1, L0775: 1, L0651: 1, L0805: 1, L0787: 1, L0665: 1, S0374: 1, H0691: 1, H0593: 1, H0670: 1, S0328: 1, S0330: 1, H0694: 1, H0436: 1, S0028: 1, H0444: 1, S0434: 1, L0592: 1, S0276: 1 and H0423: 1.</p>		
								<p>AR104: 39, AR162: 34, AR163: 31, AR161: 31, AR313: 28, AR173: 27, AR165: 27, AR166: 27, AR178: 25, AR164: 25, AR180: 22, AR033: 21, AR264: 21, AR181: 19, AR196: 18, AR176: 17, AR199: 17, AR247: 16, AR257: 16, AR229: 15, AR262: 14, AR174: 14, AR191: 13, AR233: 13, AR189: 13, AR236: 13, AR096: 13, AR179: 12, AR239: 12, AR183: 12, AR300: 12, AR228: 12, AR203: 12, AR297: 12, AR234: 11, AR188: 11, AR287: 11, AR258: 11,</p>		


[illegible]





							S0452: 1.			
							Lys-84 to Glu-95, Ser-243 to Ser-249.			
693	HE8NO09	1096692 793771	2602 703	419 - 1264 837 - 944	5199 3300			AR089: 16, AR316: 14, AR060: 13 L0754: 9, L0756: 5, L0731: 4, H0013: 3, L0770: 3, L0005: 2, H0599: 2, L0783: 2, L0809: 2, H0144: 2, H0435: 2, H0658: 2, L0439: 2, L0758: 2, H0717: 1, H0656: 1, S0001: 1, H0663: 1, S0358: 1, S0444: 1, H0728: 1, L0717: 1, H0261: 1, H0592: 1, H0333: 1, H0581: 1, H0510: 1, S6028: 1, H0266: 1, H0328: 1, H0553: 1, H0674: 1, H0412: 1, T0041: 1, S0440: 1, L0662: 1, L0650: 1, L0375: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, H0690: 1, H0478: 1, L0744: 1, L0779: 1, L0777: 1 and L0590: 1.	1	
694	HE8QU21	838391	704	4 - 192	3301		Ala-42 to Trp-47.	AR060: 6, AR316: 5, AR089: 3 H0144: 5, H0580: 1, H0013: 1 and H0665: 1.		
695	HE8SH74	833053	705	47 - 133	3302		Met-23 to Gln-28.	H0445: 2, S0114: 1, H0244: 1, H0057: 1, S0003: 1, H0163: 1, S0426: 1 and L0527: 1.		
696	HE8UX34	838170	706	142 - 366	3303		Pro-26 to Ala-32, Ala-36 to Ala-42, Pro-50 to Ala-64.	AR060: 5, AR316: 3, AR089: 1 H0013: 3 and H0144: 2.		
697	HE9AE05	863257	707	654 - 710	3304			L0794: 3, L0789: 3, L0751: 3, H0261: 2, T0010: 2, H0687: 2, S0036: 2, L0805: 2, H0144: 2, L0438: 2, L0439: 2, L0754: 2, L0747: 2, L0750: 2, L0758: 2, L0596: 2, S0040: 1, S0212: 1, S0046: 1, H0333: 1, H0643:		

698	HE9BJ14	805730	708	188 - 280	3305			1, H0575: 1, S0049: 1, H0327: 1, H0172: 1, H0024: 1, H0266: 1, H0188: 1, H0413: 1, S0038: 1, S0352: 1, S0002: 1, L0770: 1, L0769: 1, L0800: 1, L0771: 1, L0662: 1, L0803: 1, L0806: 1, L0515: 1, L0659: 1, L0542: 1, H0658: 1, S0028: 1, L0743: 1, L0777: 1, L0757: 1, S0031: 1 and S0276: 1.		
699	HE9C181	734918	709	1629 - 1709	3306			L0755: 4, H0144: 3, L0748: 3, L0777: 3, L0761: 2, L0731: 2, H0395: 1, L0785: 1, H0252: 1, L0766: 1, L0745: 1 and L0779: 1.		
700	HE9CJ38	565082	710	85 - 147	3307			L0748: 9, L0779: 4, L0766: 3, L0777: 3, L0758: 3, S0003: 2, H0144: 2, L0438: 2, L0731: 2, L0759: 2, S0356: 1, S0376: 1, S0222: 1, H0497: 1, H0362: 1, H0013: 1, T0048: 1, H0421: 1, H0050: 1, H0083: 1, H0031: 1, H0135: 1, S0440: 1, L0769: 1, L0774: 1, L0806: 1, L0788: 1, H0435: 1, H0648: 1, S0406: 1, H0555: 1, L0439: 1, L0740: 1, L0749: 1, L0608: 1 and H0506: 1.		
701	HE9CM11	821325	711	6 - 110	3308			H0144: 1		
702	HE9CN58	562768	712	139 - 189	3309			H0144: 1	12q12-12q14.3	181430, 600194, 600231, 600808, 601284, 601769, 601769, 602116
								AR089: 7, AR316: 6, AR060: 5 H0083: 2, T0067: 2, L0598: 2, L0794: 2, H0341: 1, S0212: 1, S0222: 1, S0346: 1, S0474: 1, H0266: 1, S0214: 1, H0628: 1, UNKWN: 1, L0761: 1, L0772: 1, L0764: 1, L0804: 1, H0144: 1, H0670: 1, L0758: 1,		

703	HE9CV59	847061	713	152 - 235	3310		S0011: 1 and H0352: 1. H0585: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, L0763: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280: 2, H0156: 2, H0581: 2, H0123: 2, H0051: 2, H0510: 2, H0634: 2, H0616: 2, S0440: 2, L0598: 2, L0369: 2, L0646: 2, L0775: 2, L0651: 2, L0653: 2, L0807: 2, L0665: 2, H0547: 2, H0519: 2, H0659: 2, S0378: 2, S0380: 2, H0704: 2, S0044: 2, S0027: 2, L0754: 2, L0745: 2, L0599: 2, L0362: 2, L0601: 2, H0653: 2, H0423: 2, T0002: 1, H0716: 1, S6024: 1, T0049: 1, S0218: 1, H0656: 1, H0341: 1, H0664: 1, H0638: 1, S0420: 1, S0356: 1, S0444: 1, H0208: 1, S0045: 1, S0132: 1, H0645: 1, L0717: 1, H0351: 1, S0278: 1, H0369: 1, S0222: 1, H0370: 1, H0357: 1, H0587: 1, H0331: 1, H0486: 1, H0635: 1, H0002: 1, H0042: 1, H0122: 1, H0706: 1, S0346: 1, S0474: 1, H0052: 1, H0263: 1,	
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704	HE9DG54	821326	714	295 - 501	3311				T0115: 1, H0327: 1, H0530: 1, H0198: 1, H0023: 1, H0015: 1, H0239: 1, H0594: 1, S6028: 1, H0266: 1, S0022: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0032: 1, H0068: 1, H0316: 1, H0135: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, H0625: 1, L0065: 1, S0150: 1, H0633: 1, H0646: 1, H0649: 1, H0652: 1, S0142: 1, S0002: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0794: 1, L0784: 1, L0806: 1, L0526: 1, L0547: 1, L0647: 1, L0791: 1, L0666: 1, L0663: 1, H0701: 1, H0691: 1, H0593: 1, H0682: 1, H0658: 1, L0355: 1, S0328: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0478: 1, S0206: 1, L0751: 1, L0746: 1, L0750: 1, L0780: 1, L0757: 1, L0759: 1, L0592: 1, L0594: 1, H0668: 1, S0026: 1, S0196: 1, H0543: 1, H0422: 1 and S0460: 1.		
705	HE9DH59	886059	715	701 - 739	3312			10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130,		

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706	HE9DZ47	835820	716	239 - 373	3313				S0134: 1, H0341: 1, H0156: 1, L0520: 1, L0809: 1 and H0144: 1.						
707	HE9EC36	784960	717	541 - 561	3314				H0144: 8, H0013: 2, H0024: 2, H0647: 2, L0770: 2, L0438: 2, L0731: 2, L0758: 2, H0170: 1, T0067: 1, L0598: 1, L0763: 1, L0804: 1, H0667: 1, S0192: 1 and S0242: 1.	6q23.1-6q25.3	100678, 107470, 107470, 107470, 121014, 142470, 164200, 164200, 180020, 600320, 600883, 601316, 601757, 602544				

708	HE9EM54	560627	718	125 - 205	3315		L0526: 1, H0144: 1, L0748: 1 and H0543: 1.		
709	HE9FH28	633737	719	159 - 251	3316		AR089: 15, AR316: 12, AR060: 10 H0144: 1		
710	HE9HE13	868829	720	1949 - 1966	3317		H0156: 8, L0794: 7, L0776: 6, S0222: 4, L0749: 3, H0031: 2, L0638: 2, L0805: 2, L0439: 2, H0171: 1, S0024: 1, S0001: 1, S0300: 1, L0021: 1, S0346: 1, H0041: 1, H0024: 1, S0028: 1, H0087: 1, H0623: 1, S0038: 1, H0625: 1, L0625: 1, L0769: 1, L0637: 1, H0144: 1, L0748: 1, L0780: 1 and S0106: 1.	14q32	123270, 245200, 251600, 270100, 276900
711	HE9HE13	824328	721	739 - 756	3318		H0156: 8, L0794: 7, L0776: 6, S0222: 4, L0749: 3, H0031: 2, L0638: 2, L0805: 2, L0439: 2, H0171: 1, S0024: 1, S0001: 1, S0300: 1, L0021: 1, S0346: 1, H0041: 1, H0024: 1, S0028: 1, H0087: 1, H0623: 1, S0038: 1, H0625: 1, L0625: 1, L0769: 1, L0637: 1, H0144: 1, L0748: 1, L0780: 1 and S0106: 1.	14q32	123270, 245200, 251600, 270100, 276900
712	HE9HF59	664485	722	412 - 432	3319		H0144: 1		
713	HE9HV71	658679	723	200 - 295	3320	Ser-20 to Cys-26.	L0748: 8, S0346: 2, H0144: 2, L0754: 2, H0656: 1, S0358: 1, S0408: 1, H0331: 1, H0620: 1, L0805: 1, L0531: 1, H0682: 1 and S0424: 1.		
714	HE9NB82	790925	724	60 - 389	3321	Gln-43 to Arg-49, Leu-77 to Asn-88.	L0748: 10, L0749: 4, H0619: 2, S0278: 2, H0618: 2, L0805: 2, L0439: 2, L0758: 2, L0605: 2, H0664: 1, H0402: 1, S0007: 1, S0476: 1, H0393: 1, H0549: 1, S0222: 1, H0253: 1, H0050: 1, H0038: 1, H0616: 1, H0077: 1, L0770: 1, L0794: 1, L0789: 1.		

715	HE9NE43	853313	725	276 - 335	3322				1, H0144: 1, L0438: 1 and L0742: 1. AR089: 6, AR316: 5, AR060: 5 H0144: 5			
716	HE9RN58	840361	726	515 - 595	3323				AR316: 10, AR060: 10, AR089: 10 L0439: 13, L0438: 9, L0750: 8, L0777: 6, L0779: 4, L0749: 3, H0052: 2, L0771: 2, L0768: 2, L0665: 2, H0144: 2, L0748: 2, L0603: 2, H0171: 1, H0583: 1, H0333: 1, H0486: 1, H0013: 1, H0310: 1, H0688: 1, H0031: 1, H0169: 1, H0264: 1, L0351: 1, H0641: 1, L0640: 1, L0371: 1, L0796: 1, L0372: 1, L0764: 1, L0773: 1, L0666: 1, L0664: 1, L0352: 1, H0547: 1, H0658: 1, L0747: 1, L0731: 1 and L0758: 1.	16		
717	HE9TA42	834972	727	2540 - 2650	3324	Asp-21 to Trp-34.			AR089: 11, AR316: 10, AR060: 8 L0745: 14, L0748: 7, L0659: 6, L0758: 6, H0556: 4, H0254: 4, H0551: 4, L0771: 4, L0439: 4, L0751: 4, L0747: 4, L0596: 4, H0266: 3, H0188: 3, H0617: 3, L0662: 3, L0663: 3, L0754: 3, L0752: 3, L0731: 3, H0542: 3, H0543: 3, H0255: 2, S0418: 2, S0442: 2, S0360: 2, H0619: 2, H0156: 2, H0581: 2, H0052: 2, H0040: 2, L0769: 2, L0806: 2, L0665: 2, H0144: 2, H0518: 2, S0152: 2, H0521: 2, L0743: 2, L0746: 2, L0756: 2, L0759: 2, H0707: 2, L0581: 2, H0265: 1, H0717: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, S0212:	10		



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718	HEAAC21	581048	728	68 - 259	3325			15	L0766: 10, H0031: 5, L0779: 4, L0756: 3, L0777: 3, L0752: 3, S0444: 2, S0003: 2, H0529: 2, L0803: 2, L0793: 2, L0666: 2, L0602: 2, L0754: 2, L0745: 2, T0002: 1, S0114: 1, H0656: 1, H0637: 1, H0369: 1, H0574: 1, H0427: 1, S0280: 1, H0009: 1, H0399: 1, S0250: 1, H0644: 1, H0040: 1, S0382: 1, S0210: 1, L0761: 1, L0521: 1, L0767: 1, L0794: 1, L0655: 1, L0606: 1, L0809: 1, L0787: 1, S0148: 1, L0438: 1, H0658: 1, H0696: 1, S0404: 1, S0406: 1, H0555: 1, H0436: 1, L0731: 1, L0757: 1.					

[illegible]

719	HEAAC39	637600	729	299 - 316	3326			1, L0759: 1, S0031: 1, S0434: 1, L0589: 1 and L0599: 1. AR290: 15, AR270: 12, AR257: 9, AR173: 9, AR267: 9, AR269: 8, AR182: 8, AR176: 7, AR183: 7, AR268: 7, AR286: 6, AR296: 6, AR266: 6, AR175: 6, AR161: 6, AR162: 6, AR191: 6, AR289: 6, AR163: 6, AR198: 5, AR039: 5, AR189: 5, AR181: 5, AR180: 5, AR204: 5, AR185: 5, AR242: 5, AR190: 5, AR053: 5, AR228: 5, AR178: 4, AR089: 4, AR272: 4, AR255: 4, AR174: 4, AR300: 4, AR165: 4, AR164: 4, AR177: 4, AR236: 4, AR179: 4, AR166: 4, AR287: 4, AR288: 4, AR262: 4, AR299: 4, AR295: 4, AR238: 4, AR293: 4, AR263: 4, AR233: 4, AR294: 4, AR309: 3, AR239: 3, AR261: 3, AR316: 3, AR231: 3, AR252: 3, AR218: 3, AR188: 3, AR192: 3, AR291: 3, AR219: 3, AR237: 3, AR196: 3, AR313: 3, AR060: 3, AR234: 3, AR283: 3, AR285: 3, AR256: 3, AR205: 3, AR297: 3, AR201: 3, AR203: 3, AR229: 3,		
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										AR247: 3, AR221: 3, AR061: 3, AR195: 3, AR232: 3, AR226: 3, AR211: 3, AR312: 3, AR230: 3, AR207: 2, AR168: 2, AR055: 2, AR200: 2, AR225: 2, AR258: 2, AR214: 2, AR271: 2, AR260: 2, AR227: 2, AR264: 2, AR274: 2, AR216: 2, AR277: 2, AR172: 2, AR240: 2, AR308: 2, AR275: 2, AR235: 2, AR213: 2, AR193: 2, AR224: 1, AR223: 1, AR096: 1, AR282: 1, AR197: 1 L0747: 4, L0777: 3, L0657: 2, L0759: 2, L0811: 1, H0369: 1, L0021: 1, S0346: 1, H0009: 1, L0637: 1, L0772: 1, L0375: 1, L0783: 1, L0809: 1, H0659: 1, H0660: 1, L0731: 1 and L0758: 1.					
720	HEAAC48	603520	730	178 - 270	3327					L0438: 3, H0369: 1, L0527: 1 and L0439: 1.					
721	HEAAD63	603321	731	107 - 139	3328					S0001: 1 and H0369: 1.					
722	HEAAE19	825833	732	296 - 340	3329					H0369: 1, L0520: 1, L0663: 1, S0053: 1 and L0748: 1.					
723	HEAAM54	740751	733	219 - 344	3330					H0369: 1					
724	HEAAM96	562769	734	217 - 264	3331					AR089: 8, AR316: 8, AR060: 8 H0369: 1					
725	HEAAN52	862020	735	377 - 424	3332										
726	HEAAU28	604909	736	73 - 195	3333					H0369: 1, L0657: 1, L0517: 1, H0648: 1 and L0777: 1.					
727	HEAAW54	843633	737	196 - 357	3334					H0369: 1, L0649: 1 and L0666: 1.					

728	HEAAW94	847340	738	189 - 224	3335		<p>L0439: 26, L0438: 20, L0748: 17, L0766: 16, L0754: 16, L0731: 16, H0556: 9, L0740: 8, S0222: 7, H0090: 7, L0774: 7, H0144: 6, L0745: 6, L0779: 6, L0777: 6, L0758: 6, S0003: 5, L0662: 5, L0794: 5, S0418: 4, H0575: 4, L0776: 4, L0751: 4, L0749: 4, L0756: 4, L0752: 4, L0591: 4, H0423: 4, H0341: 3, S0360: 3, H0369: 3, H0156: 3, L0435: 3, L0769: 3, L0775: 3, L0809: 3, L0666: 3, H0547: 3, S0328: 3, H0521: 3, L0747: 3, L0750: 3, L0780: 3, H0543: 3, H0171: 2, S0442: 2, S0354: 2, S0358: 2, S0132: 2, S0278: 2, H0497: 2, T0039: 2, H0706: 2, H0036: 2, H0596: 2, H0009: 2, H0375: 2, S6028: 2, H0266: 2, S0214: 2, H0328: 2, H0622: 2, H0644: 2, H0591: 2, H0413: 2, T0041: 2, L0770: 2, L0796: 2, L0363: 2, L0806: 2, L0659: 2, L0542: 2, L0783: 2, L0791: 2, L0665: 2, H0518: 2, S3014: 2, S0028: 2, H0595: 2, S0434: 2, L0589: 2, L0604: 2, L0601: 2, H0542: 2, S0424: 2, L0411: 1, H0624: 1, H0170: 1, L0615: 1, H0265: 1, S0342: 1, S6024: 1, S0134: 1, H0657: 1, S0212: 1, H0450: 1, S0420: 1, L0005: 1, S0444: 1, H0580: 1, S0045: 1, S0476: 1, H0393: 1, H0550: 1, H0441: 1, H0370: 1, H0600: 1, H0586: 1, H0587: 1, H0486: 1, H0250: 1, H0635: 1, L0021: 1, S0182: 1, L0563: 1, H0052: 1, H0309: 1, H0046: 1,</p>	3p14.3	150250, 164500, 277730, 600971, 601226
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729	HEBAPS1	631248	739	1060 - 1173	3336				L0157: 1, L0118: 1, H0566: 1, H0081: 1, H0050: 1, H0057: 1, S0051: 1, S0318: 1, S0316: 1, H0687: 1, S0250: 1, H0615: 1, H0428: 1, H0039: 1, L0483: 1, H0553: 1, L0055: 1, H0032: 1, H0673: 1, S0366: 1, H0038: 1, H0634: 1, H0380: 1, H0488: 1, H0623: 1, H0059: 1, S0112: 1, L0351: 1, H0641: 1, H0646: 1, S0344: 1, S0002: 1, S0426: 1, L0638: 1, L4747: 1, L0761: 1, L0627: 1, L0372: 1, L0646: 1, L0374: 1, L0644: 1, L0771: 1, L0767: 1, L0768: 1, L0549: 1, L0550: 1, L0533: 1, L0804: 1, L0650: 1, L0375: 1, L0651: 1, L0523: 1, L0655: 1, L0782: 1, L0790: 1, L0663: 1, L0664: 1, S0148: 1, L0352: 1, H0520: 1, H0519: 1, S0126: 1, H0672: 1, S0152: 1, H0522: 1, H0696: 1, S0044: 1, S0406: 1, L0612: 1, S3012: 1, L0746: 1, L0786: 1, L0759: 1, H0445: 1, L0684: 1, S0436: 1, L0608: 1, H0667: 1, S0276: 1 and H0422: 1. AR089: 7, AR316: 7, AR060: 6 L0438: 4, S0007: 3, L0439: 3, L0759: 3, L0756: 2, H0351: 1, S0222: 1, L0021: 1, T0010: 1, H0083: 1, H0644: 1, H0032: 1, L0631: 1, L0794: 1, L0809: 1, L0663: 1, H0547: 1, H0648: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, L0731: 1, S0026: 1 and S0276: 1.		
730	HEBAT05	637602	740	216 - 383	3337	Gly-37 to Pro-45.			H0620: 8, S0007: 7, L0731: 7, H0012: 5, L0751: 5, L0747: 16		

731	HEBBF78	742915	741	590 - 649	3338			5, L0769: 4, H0144: 4, H0657: 3, H0617: 3, L0794: 3, L0775: 3, S0406: 3, L0750: 3, H0556: 2, H0662: 2, H0253: 2, H0545: 2, H0046: 2, H0024: 2, H0424: 2, H0213: 2, H0087: 2, H0494: 2, L0766: 2, L0774: 2, L0809: 2, L0519: 2, L0532: 2, H0547: 2, H0683: 2, L0743: 2, L0744: 2, L0779: 2, L0757: 2, L0759: 2, H0445: 2, H0624: 1, H0170: 1, H0171: 1, T0002: 1, H0167: 1, H0341: 1, H0638: 1, S0418: 1, S0420: 1, S0358: 1, S0360: 1, S0045: 1, S0046: 1, H0393: 1, H0437: 1, H0550: 1, S0222: 1, H0370: 1, L0622: 1, H0485: 1, H0486: 1, H0618: 1, H0318: 1, H0581: 1, H0309: 1, H0544: 1, H0150: 1, H0565: 1, H0571: 1, H0051: 1, S0388: 1, H0266: 1, H0622: 1, H0031: 1, H0181: 1, S0366: 1, H0598: 1, S0036: 1, H0038: 1, H0551: 1, H0413: 1, T0041: 1, H0509: 1, H0538: 1, L0770: 1, L0648: 1, L0776: 1, L0655: 1, L0659: 1, L0789: 1, L0790: 1, L0791: 1, S0374: 1, H0693: 1, H0520: 1, H0435: 1, H0660: 1, S0378: 1, S0380: 1, S0027: 1, S0028: 1, L0748: 1, S0260: 1, L0604: 1, L0593: 1, S0194: 1, H0543: 1 and H0423: 1.	12	
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732	HEBBK04	801958	742	280 - 369	3339	L0774: 3, L0775: 3, L0776: 3, L0754: 3, L0747: 3, L0757: 3, L0759: 3, H0662: 2, T0060: 2, H0575: 2, S0346: 2, S0049: 2, H0052: 2, H0271: 2, H0032: 2, S0364: 2, L0455: 2, S0142: 2, L0771: 2, L0649: 2, H0519: 2, L0740: 2, L0750: 2, L0755: 2, L0731: 2, L0758: 2, S0434: 2, L0595: 2, H0624: 1, H0713: 1, S0430: 1, H0661: 1, S0418: 1, S0376: 1, S0444: 1, H0580: 1, H0619: 1, S0278: 1, H0587: 1, H0642: 1, H0574: 1, T0039: 1, T0040: 1, H0013: 1, H0156: 1, L0021: 1, H0036: 1, S0474: 1, H0545: 1, H0569: 1, H0024: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0328: 1, H0615: 1, H0424: 1, H0031: 1, H0553: 1, H0644: 1, H0628: 1, H0617: 1, H0634: 1, H0551: 1, H0413: 1, H0056: 1, H0100: 1, T0041: 1, S0438: 1, L0763: 1, L0770: 1, L0648: 1, L0767: 1, L0375: 1, L0806: 1, L0659: 1, L0382: 1, L0809: 1, L0367: 1, L0666: 1, L0663: 1, H0701: 1, T0068: 1, L0352: 1, H0547: 1, H0684: 1, H0672: 1, S0330: 1, H0710: 1, S3014: 1, S0027: 1, L0742: 1, L0786: 1, S0196: 1 and H0506: 1.		
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733	HEBCN80	596808	743	322 - 474	3340	Leu-42 to Lys-50.	S0406: 1, S3014: 1, S0027: 1, L0742: 1, L0745: 1, L0786: 1, L0608: 1, H0668: 1, S0194: 1, S0196: 1, H0422: 1, H0506: 1 and H0352: 1.			
734	HEBCW57	858804	744	1080 - 1265	3341	Lys-56 to Ser-62.	S0007: 1 AR060: 5, AR316: 4, AR089: 2 L0439: 7, S0007: 4, H0144: 4, H0563: 2, L0794: 2, L0438: 2, S0222: 1, H0438: 1, S0010: 1, S0346: 1, L0471: 1, H0560: 1, L0807: 1 and L0367: 1.			
735	HEBDF90	835835	745	1461 - 1583	3342		L0754: 6, L0758: 6, L0598: 3, L0756: 3, H0716: 2, S0358: 2, S0360: 2, S0007: 2, H0318: 2, H0052: 2, L0471: 2, H0615: 2, L0794: 2, L0766: 2, L0663: 2, H0658: 2, L0750: 2, L0731: 2, H0664: 1, H0638: 1, S0442: 1, H0741: 1, H0734: 1, H0229: 1, H0411: 1, H0415: 1, H0497: 1, H0574: 1, H0599: 1, H0108: 1, S0010: 1, S0474: 1, H0581: 1, H0050: 1, S0214: 1, H0030: 1, H0032: 1, H0113: 1, H0616: 1, T0067: 1, H0488: 1, H0059: 1, S0438: 1, H0538: 1, L0803: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L5623: 1, L0788: 1, L0791: 1, L0793: 1, L0666: 1, H0520: 1, H0519: 1, H0684: 1, H0670: 1, H0521: 1, L0747: 1, L0749: 1, L0752: 1, L0759: 1, S0434: 1, L0596: 1, L0592: 1, L0362: 1 and H0423: 1.			1
736	HEBDW31	795500	746	734 - 1162	3343	Gln-35 to Gly-58, Asn-109 to Cys-118, Thr-122 to Ser-132.	AR248: 8, AR253: 8, AR249: 5, AR060: 5, AR270: 4, AR269: 4,			

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737	HEBFL36	604638	747	381 - 512	3344			S0007: 3, L0438: 1 and L0439: 1.			
738	HEBGC01	635224	748	201 - 311	3345	Asp-31 to Pro-36.		AR060: 8, AR316: 7, AR089: 5 S0007: 2			
739	HEBGE23	836129	749	153 - 398	3346			AR089: 3, AR316: 3, AR060: 3 L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, L0439: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0485: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1, H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0768: 1, L0775: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0592: 1, H0136: 1 and 19q13.1			164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716

740	HEBGE85	834478	750	615 - 638	3347		S0424: 1. AR060: 6, AR316: 6, AR089: 6 L0777: 8, L0439: 7, L0747: 7, S0007: 6, L0758: 5, L0779: 4, L0803: 3, H0539: 3, L0794: 2, L0791: 2, S0136: 2, L0756: 2, L0441: 1, S0222: 1, H0708: 1, L0764: 1, L0805: 1, L0438: 1, S0146: 1, L0780: 1, L0755: 1 and L0592: 1.	2	
741	HEBGJ94	847065	751	158 - 313	3348	Glu-43 to Gly-49.	AR060: 12, AR316: 10, AR089: 8 L0747: 19, L0769: 13, L0750: 11, L0779: 11, L0789: 10, L0805: 9, L0748: 9, L0770: 8, L0754: 8, S0474: 6, L0766: 6, L0439: 6, L0740: 6, L0731: 5, S0356: 4, S0222: 4, S0003: 4, L0662: 4, L0776: 4, L0759: 4, S0134: 3, H0638: 3, S0422: 3, L0764: 3, L0794: 3, L0375: 3, L0807: 3, L0783: 3, L0438: 3, L0744: 3, L0758: 3, S0436: 3, H0422: 3, H0170: 2, H0656: 2, S0358: 2, S0360: 2, S0045: 2, H0559: 2, H0050: 2, L0471: 2, S0051: 2, H0622: 2, S0364: 2, H0591: 2, H0634: 2, H0264: 2, L0763: 2, L0771: 2, L0803: 2, L0657: 2, L0659: 2, L0517: 2, L0665: 2, H0723: 2, S0328: 2, H0521: 2, L0749: 2, L0756: 2, L0752: 2, L0753: 2, L0757: 2, L0485: 2, L0604: 2, L0595: 2, H0543: 2, H0352: 2, T0002: 1, H0222: 1, S0040: 1, H0716: 1, S0114: 1, H0583: 1, H0341: 1, S0212: 1, S0282: 1, H0483: 1, S0418: 1, S0420: 1,		

742	HEBGM06	842527	752	26 - 148	3349	Pro-34 to Pro-40.	L0534: 1, L0539: 1, L0619: 1, S0444: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, L0717: 1, H0351: 1, H0431: 1, H0461: 1, H0586: 1, H0587: 1, H0333: 1, L0622: 1, L0623: 1, T0114: 1, H0013: 1, H0250: 1, L0021: 1, H0575: 1, H0706: 1, H0036: 1, T0071: 1, H0581: 1, H0421: 1, H0085: 1, H0596: 1, L0040: 1, H0012: 1, T0003: 1, H0024: 1, H0057: 1, S0362: 1, H0083: 1, H0060: 1, H0266: 1, H0039: 1, H0417: 1, H0628: 1, H0617: 1, H0032: 1, H0165: 1, H0674: 1, H0708: 1, H0068: 1, H0038: 1, H0087: 1, H0412: 1, H0056: 1, H0100: 1, H0561: 1, H0641: 1, S0472: 1, S0144: 1, H0529: 1, L0639: 1, L0800: 1, L0641: 1, L0768: 1, L0380: 1, L0499: 1, L0774: 1, L0775: 1, L0378: 1, L0806: 1, L0633: 1, L0526: 1, L0367: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, S0428: 1, H0144: 1, T0068: 1, H0547: 1, H0593: 1, H0689: 1, H0711: 1, H0682: 1, H0658: 1, H0670: 1, H0672: 1, H0539: 1, S0378: 1, H0522: 1, S0406: 1, H0436: 1, H0631: 1, L0743: 1, L0786: 1, L0780: 1, S0031: 1, H0444: 1, L0596: 1, L0590: 1, L0608: 1, L0593: 1, L0361: 1, L0601: 1, S0106: 1, H0668: 1, S0026: 1, H0665: 1, S0242: 1, H0542: 1, S0424: 1 and H0506: 1.
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743	HEEAB58	834398	753	1157 - 1210	3350			1, H0620: 1, H0292: 1, H0428: 1, L0769: 1, L0637: 1, L0805: 1, L0789: 1, L0352: 1, H0658: 1, S0328: 1, S0330: 1, H0522: 1, L0743: 1, L0439: 1, L0747: 1 and L0780: 1. AR089: 12, AR316: 11, AR060: 9 L0748: 10, L0740: 9, S0002: 5, L0662: 5, L0776: 5, L0754: 5, H0622: 4, L0439: 4, L0749: 4, L0731: 4, L0603: 4, L0764: 3, L0747: 3, S0045: 2, H0587: 2, H0596: 2, H0264: 2, H0623: 2, L0666: 2, L0663: 2, H0144: 2, L0756: 2, L0758: 2, H0170: 1, H0265: 1, H0220: 1, H0650: 1, H0656: 1, L0785: 1, H0483: 1, H0255: 1, L0005: 1, S0354: 1, H0580: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0600: 1, H0586: 1, H0331: 1, H0492: 1, H0486: 1, H0013: 1, H0156: 1, L0021: 1, H0036: 1, H0318: 1, H0581: 1, H0251: 1, H0327: 1, H0545: 1, H0009: 1, H0050: 1, H0012: 1, H0373: 1, H0355: 1, H0594: 1, H0687: 1, H0039: 1, T0023: 1, L0483: 1, H0644: 1, L0143: 1, S0366: 1, H0038: 1, H0488: 1, H0100: 1, H0494: 1, H0641: 1, S0142: 1, S0426: 1, L0762: 1, L0763: 1, L0770: 1, L0639: 1, L0761: 1, L0648: 1, L0774: 1, L0375: 1, L0806: 1, L0783: 1, L0788: 1, S0374: 1, H0693: 1, H0682: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, H0518: 1, H0521: 1, S0146: 1, L0611: 1, S0314: 1, L0750: 1.		
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744	HEEAF49	880521	754	38 - 163	3351			1, L0753: 1, H0445: 1, L0584: 1, H0542: 1, H0422: 1, S0412: 1, S0446: 1 and H0352: 1. L0755: 7, L0774: 4, L0776: 4, L0747: 4, L0750: 4, L0769: 3, L0809: 3, L0439: 3, L0777: 3, S0358: 2, H0333: 2, H0545: 2, L0770: 2, L0764: 2, L0803: 2, L0775: 2, L0530: 2, L0789: 2, S0328: 2, S0330: 2, H0696: 2, H0008: 2, H0170: 1, H0556: 1, T0002: 1, H0656: 1, L0785: 1, H0341: 1, H0483: 1, L0005: 1, S0007: 1, H0549: 1, L0623: 1, H0599: 1, H0052: 1, L0157: 1, L0471: 1, H0023: 1, H0615: 1, T0023: 1, H0031: 1, H0644: 1, L0055: 1, S0366: 1, S0036: 1, H0135: 1, H0063: 1, T0067: 1, H0560: 1, S0422: 1, L0371: 1, L0521: 1, L0766: 1, L0375: 1, L0805: 1, L0653: 1, L0661: 1, L0658: 1, L0526: 1, L0531: 1, L0367: 1, L0666: 1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1. H0171: 1, H0549: 1, L0790: 1 and S0152: 1. H0550: 1		
745	HEEA146	637623	755	291 - 314	3352			AR252: 553, AR253: 279, AR245: 232, AR272: 216, AR246: 211, AR210: 184, AR197: 164, AR205: 159, AR308: 157, AR053: 151, AR212: 141, AR222: 140, AR250: 139, AR224: 138, AR243: 131, AR271: 131,		
746	HEGAI20	825818	756	111 - 284	3353			His-23 to Leu-31, His-33 to Pro-41.		
747	HEIAC52	826611	757	760 - 918	3354					

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748	HELAC55	610078	758	188 - 304	3355				S0114: 1, S0045: 1, H0318: 1 and H0251: 1.					
749	HELAT58	732199	759	215 - 283	3356				S0045: 1					
750	HELAW94	834796	760	182 - 229	3357				H0250: 4, H0657: 2, H0305: 2, H0641: 2, H0519: 2, S0126: 2, H0521: 2, L0757: 2, H0423: 2, H0556: 1, S0114: 1, H0650: 1, S0045: 1, H0393: 1, H0069: 1, S0010: 1, H0581: 1, H0014: 1, H0266: 1, S0022: 1, S0214: 1, H0674: 1, H0090: 1, H0477: 1, H0268: 1, S0144: 1, L0637: 1, L0774: 1, L0651: 1, L0659: 1.					

751	HELDF80	799522	761	37 - 69	3358			1, L0789: 1, L0790: 1, H0701: 1, H0699: 1, H0547: 1, H0672: 1 and H0543: 1. AR089: 23, AR316: 18, AR060: 14 L0748: 17, L0749: 14, H0038: 10, L0666: 9, H0547: 8, H0521: 8, L0758: 8, S0358: 7, S0003: 7, L0754: 7, L0485: 7, S0280: 6, H0040: 6, S3014: 6, L0777: 6, L0755: 6, S0116: 5, H0068: 5, L0659: 5, L0665: 5, S0027: 5, L0744: 5, L0740: 5, L0591: 5, H0657: 4, H0656: 4, H0013: 4, H0318: 4, H0266: 4, H0687: 4, H0031: 4, S0002: 4, S0206: 4, L0752: 4, H0445: 4, H0542: 4, H0423: 4, H0497: 3, H0427: 3, H0581: 3, H0046: 3, H0014: 3, H0615: 3, H0553: 3, L0142: 3, S0036: 3, H0090: 3, H0634: 3, H0616: 3, H0551: 3, H0623: 3, S0440: 3, L0662: 3, L0767: 3, H0144: 3, H0696: 3, S0028: 3, L0439: 3, L0731: 3, L0362: 3, S0196: 3, S0001: 2, H0662: 2, H0638: 2, H0580: 2, S0045: 2, S0222: 2, H0587: 2, H0574: 2, H0486: 2, H0706: 2, S0010: 2, S0346: 2, T0048: 2, S0474: 2, H0309: 2, H0620: 2, H0428: 2, L0483: 2, S0366: 2, H0488: 2, H0412: 2, L0763: 2, L0637: 2, L0667: 2, L0646: 2, L0768: 2, L0774: 2, L0657: 2, L0663: 2, S0374: 2, H0520: 2, H0519: 2, S0126: 2, H0435: 2, S0328: 2, S0152: 2, S0146: 2, H0555: 2, H0436: 2, L0747: 2, L0595: 2, S0026: 2, S0194: 2	1p22	170995, 191540, 274270, 274270, 600309, 601414, 602094
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752	HELDH39	780536	762	1121 - 1252	3359			L0439: 8, L0777: 8, L0740: 5, S0420: 3, L0438: 3, L0751: 3, S0222: 2, L0776: 2, L0602: 2, S0136: 2, H0521: 2, S0432: 2, L0748: 2, H0423: 2, H0556: 1, S0114: 1, S0134: 1, S0116: 1, H0664: 1, L0430: 1, H0637: 1, H0580: 1, S0045: 1, H0370: 1, T0039: 1, H0013: 1, H0156: 1, S0010: 1, L0105: 1, H0009: 1, H0123: 1, H0083: 1, H0135: 1, S0002: 1, L0770: 1, L0796: 1, L0768: 1, L0794: 1, L0766: 1, L0649: 1, L0803: 1, L0805: 1, L0809: 1, L0666: 1, S0126: 1, H0436: 1, S0390: 1, S0028: 1, L0754: 1, L0756: 1, L0752: 1, L0758: 1 and H0543: 1. S0045: 1			
753	HELDK79	532597	763	316 - 522	3360	Thr-49 to Pro-56.		S0045: 1	3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682	
754	HELDQ42	695716	764	712 - 792	3361	Ser-11 to Ser-17.		AR089: 14, AR316: 13, AR060: 12 L0747: 11, L0776: 10, L0731: 9, H0144: 8, H0457: 7, H0305: 6, H0521: 6, L0745: 6, H0052: 5, L0750: 5, L0596: 5, H0170: 4, H0013: 4, S0010: 4, H0620: 4, L0766: 4, L0758: 4,	20q11.2-q12	139190, 139190, 224100, 600281, 600281, 601002, 601002, 601146, 601146, 601146	

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755	HELEE85	835457	765	75 - 107	3362					L0655: 1, L0634: 1, L0659: 1, L0783: 1, L0384: 1, L0809: 1, L0792: 1, L0666: 1, L0663: 1, L0665: 1, S0053: 1, H0520: 1, H0519: 1, S0328: 1, S0330: 1, H0539: 1, H0479: 1, S0037: 1, S3014: 1, L0741: 1, L0744: 1, L0749: 1, L0753: 1, L0755: 1, H0445: 1, L0589: 1, L0591: 1, L0599: 1, L0604: 1, L0594: 1, H0668: 1 and S0398: 1.		
756	HELEL76	862490	766	165 - 821	3363	Thr-45 to Asn-62, Thr-108 to Phe-117, Asp-124 to Arg-135, Arg-188 to Asp-194, Leu-213 to Lys-218.				AR089: 9, AR316: 8, AR060: 7 S0003: 15, S0214: 6, L0731: 4, S0376: 2, H0036: 2, H0545: 2, H0641: 2, L0598: 2, L0590: 2, S0045: 1, S6026: 1, H0042: 1, H0581: 1, L0040: 1, H0188: 1, H0412: 1, S0422: 1, L0641: 1, L0803: 1, L0804: 1, L0809: 1, L0663: 1, L0664: 1, H0693: 1, H0365: 1, H0684: 1, H0660: 1, L0777: 1, L0752: 1 and L0758: 1. AR089: 30, AR316: 26, AR060: 22 H0584: 15, H0620: 10, H0617: 10, L0748: 10, H0599: 8, L0779: 8, L0752: 8, S0045: 7, S0046: 7, S0222: 7, H0052: 7, H0543: 7, S0358: 6, S0010: 6, H0539: 6, L0588: 6, H0265: 5, H0556: 5, H0550: 5, H0545: 5, H0100: 5, S0344: 5, H0672: 5, L0749: 5, H0255: 4, S0420: 4, H0549: 4, H0486: 4, H0618: 4, S0036: 4, H0551: 4, S0144: 4, L0775: 4, L0776: 4, L0809: 4, H0547: 4, S0152: 4, H0521: 4, L0741: 4, L0747: 4, L0777: 4.	10	

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757	HELEL76	839470	767	42 - 629	3364	Thr-45 to Asn-62, Thr-108 to Phe-117, Asp-124 to Arg-135, Thr-187 to Gly-193.	AR089: 30, AR316: 26, AR060: 22 H0584: 15, H0620: 10, H0617: 10, L0748: 10, H0599: 8, L0779: 8, L0752: 8, S0045: 7, S0046: 7, S0222: 7, H0052: 7, H0543: 7, S0358: 6, S0010: 6, H0539: 6, L0588: 6, H0265: 5, H0556: 5, H0550: 5, H0545: 5, H0100: 5, S0344: 5, H0672: 5, L0749: 5, H0255: 4, S0420: 4, H0549: 4, H0486: 4, H0618: 4, S0036: 4, H0551: 4, S0144: 4, L0775: 4, L0776: 4, L0809: 4, H0547: 4, S0152: 4, H0521: 4, L0741: 4, L0747: 4, L0777: 4, L0757: 4, L0601: 4, H0713: 3, H0657: 3, H0341: 3, S0354: 3, H0333: 3, H0013: 3, H0427: 3, S0049: 3, H0050: 3, H0424: 3, H0031: 3, H0606: 3, H0040: 3, H0264: 3, T0042: 3, H0494: 3, H0529: 3, L0375: 3, L0657: 3, L0659: 3, S0037: 3, L0439: 3, L0750: 3, L0596: 3, L0581: 3, H0542: 3, S0424: 3, H0624: 2, H0716: 2, H0650: 2, H0254: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0619: 2, H0393: 2, H0370: 2, H0438: 2, H0497: 2, H0257: 2, L0622: 2, S0346: 2, H0581: 2, H0046: 2, H0009: 2, L0471: 2, H0024: 2, H0373: 2, S0388: 2, S0051: 2, T0010: 2, H0288: 2, H0290: 2, H0039: 2, H0181: 2, H0673: 2, H0135: 2, H0087: 2, H0058: 2, H0268: 2, H0413: 2, H0059: 2, T0041: 2, H0561: 2, S0438: 2, H0132: 2, S0002: 2, L0772: 2, L0646:		
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758	HELEO45	847067	768	80 - 145	3365			1, L0803: 1, L0774: 1, L0655: 1, L0606: 1, L0807: 1, L0658: 1, L0512: 1, L0636: 1, L0517: 1, L0518: 1, L0383: 1, L0519: 1, L0530: 1, L5623: 1, L0665: 1, H0703: 1, H0519: 1, S0126: 1, H0670: 1, S0330: 1, S0350: 1, H0522: 1, H0696: 1, S0044: 1, H0540: 1, S0390: 1, S0028: 1, L0742: 1, L0743: 1, L0751: 1, L0754: 1, L0786: 1, L0731: 1, L0758: 1, S0031: 1, S0260: 1, L0587: 1, L0485: 1, L0599: 1, S0106: 1, S0026: 1, H0653: 1, H0667: 1, H0506: 1 and L0462: 1.	2q21.1-q21.3	256030	
759	HELEFA57	845981	769	118 - 174	3366	Gly-1 to Lys-6.		S0136: 10, L0666: 3, H0656: 2, H0551: 2, H0561: 2, L0800: 2, L0662: 2, L0794: 2, L0804: 2, L0657: 2, H0519: 2, H0521: 2, L0754: 2, L0756: 2, L0777: 2, H0159: 1, S0045: 1, T0060: 1, H0253: 1, H0318: 1, H0581: 1, H0052: 1, H0024: 1, H0083: 1, H0266: 1, S0214: 1, H0615: 1, H0591: 1, H0040: 1, H0494: 1, H0646: 1, L0763: 1, L0521: 1, L0766: 1, L0659: 1, L0809: 1, H0520: 1, H0547: 1, H0648: 1, S0152: 1, L0744: 1, L0751: 1, L0779: 1, L0604: 1, H0543: 1 and H0423: 1.			
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760	HELFO30	828202	770	607 - 732	3367		AR260: 4, AR172: 4, AR287: 4, AR168: 4, AR104: 4, AR230: 4, AR205: 4, AR225: 4, AR227: 4, AR190: 4, AR283: 4, AR060: 4, AR250: 4, AR232: 3, AR254: 3, AR033: 3, AR061: 3, AR256: 3, AR246: 3, AR216: 3, AR221: 3, AR224: 3, AR055: 2, AR171: 2, AR211: 2, AR210: 1, AR169: 1 H0052: 2, S0192: 2, L0460: 1, S0116: 1, L0534: 1, L0539: 1, S0045: 1, H0619: 1, H0645: 1, H0036: 1, H0596: 1, H0620: 1, H0024: 1, S0388: 1, H0670: 1, H0672: 1 and H0539: 1. L0752: 37, S0003: 10, L0731: 7, S0214: 5, L0803: 5, L0777: 5, L0756: 4, L0804: 3, S0328: 3, L0759: 3, L0105: 2, H0622: 2, H0412: 2, H0529: 2, L0794: 2, S0122: 2, L0439: 2, L0740: 2, L0747: 2, H0669: 1, H0661: 1, S0376: 1, S0468: 1, S0045: 1, H0601: 1, H0586: 1, H0587: 1, H0497: 1, L0021: 1, H0309: 1, S0022: 1, H0165: 1, H0551: 1, H0633: 1, S0422: 1, L0388: 1, L0805: 1, L0659: 1, L0783: 1, L0666: 1, H0144: 1, H0365: 1, H0659: 1, H0658: 1, H0539: 1, S0136: 1 and S0026: 1.		
761	HELGF28	740782	771	255 - 320	3368		AR102: 9, AR161: 9, AR163: 9, AR271: 7, AR263: 7, AR089: 6,	3p24.3	154705, 190160, 227646, 601154

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762	HELGP60	580822	772	171 - 260	3369	Met-1 to Lys-6.	1, H0597: 1, H0123: 1, H0375: 1, H0416: 1, H0032: 1, L0455: 1, H0591: 1, H0038: 1, H0616: 1, L0764: 1, L0768: 1, L0774: 1, L0805: 1, L0809: 1, L0647: 1, L0789: 1, L0791: 1, H0144: 1, L0565: 1, H0519: 1, S0146: 1, L0744: 1, L0439: 1, L0749: 1, L0608: 1, L0604: 1 and L0593: 1.		
763	HELHN47	872795	773	935 - 1072	3370	Glu-35 to Phe-44.	S0045: 1, H0012: 1 and H0264: 1. AR253: 13, AR313: 13, AR162: 12, AR161: 12, AR163: 12, AR164: 11, AR165: 11, AR166: 10, AR269: 10, AR193: 9, AR176: 9, AR254: 9, AR183: 8, AR312: 8, AR270: 8, AR242: 8, AR196: 8, AR268: 8, AR173: 8, AR175: 8, AR191: 8, AR290: 8, AR089: 7, AR189: 7, AR300: 7, AR250: 7, AR255: 7, AR096: 7, AR266: 7, AR192: 6, AR240: 6, AR182: 6, AR174: 6, AR178: 6, AR275: 6, AR180: 6, AR169: 6, AR271: 6, AR245: 6, AR274: 6, AR291: 6, AR185: 6, AR190: 6, AR197: 6, AR229: 6, AR195: 6, AR238: 6, AR285: 6, AR257: 5, AR264: 5, AR204: 5, AR296: 5, AR200: 5, AR267: 5, AR198: 5, AR282: 5,	17q21.31-q21.33	109270, 109270, 109270, 109270, 120150, 120150, 120150, 148065, 148080, 154275, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844



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764	HELHP11	638064	774	293 - 409	3371				H0305: 4, S0045: 1, L0666: 1 and H0444: 1.								
765	HELHP11	851116	775	293 - 409	3372				H0305: 4, S0045: 1, L0666: 1								

766	HEMAE30	866169	776	169 - 261	3373		and H0444: 1. AR089: 11, AR316: 8, AR060: 5 L0731: 9, L0754: 6, S0422: 5, L0805: 5, L0756: 5, L0766: 4, S0406: 4, H0436: 4, L0439: 4, S0376: 3, S0444: 3, L0771: 3, L0794: 3, L0803: 3, L0655: 3, L0665: 3, H0521: 3, L0755: 3, S0003: 2, L0763: 2, L0776: 2, L0657: 2, L0515: 2, L0438: 2, H0547: 2, H0696: 2, L0740: 2, L0779: 2, L0757: 2, L0758: 2, L0591: 2, L0361: 2, H0170: 1, T0002: 1, S0114: 1, H0583: 1, S0212: 1, H0125: 1, S0348: 1, S0408: 1, H0208: 1, S0046: 1, S0476: 1, H0486: 1, H0581: 1, L0738: 1, H0544: 1, H0057: 1, H0373: 1, H0179: 1, H0687: 1, H0092: 1, H0553: 1, H0674: 1, H0090: 1, H0412: 1, L5575: 1, L0646: 1, L0764: 1, L0662: 1, L0804: 1, L0650: 1, L0774: 1, L0775: 1, L0606: 1, L0656: 1, L0809: 1, L0788: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0691: 1, H0682: 1, S0404: 1, L0751: 1, L0747: 1, L0759: 1, S0434: 1, L0605: 1, L0595: 1, S0242: 1, H0542: 1 and H0506: 1.		
767	HEMBV40	847069	777	276 - 383	3374		AR060: 31, AR316: 31, AR089: 30 L0747: 16, L0731: 11, L0752: 9, L0758: 7, S0358: 6, H0457: 6, L0771: 6, L0764: 5, L0750: 5, L0622: 4, L0774: 4, L0776: 4, L0623: 3, H0486: 3, L0772: 3, L0775: 3, L0809: 3,		

768	HEMCJ80	765041	778	323 - 559	3375			L0757: 3, L0759: 3, H0170: 2, H0373: 2, H0708: 2, L0763: 2, L0770: 2, L0769: 2, L0773: 2, L0375: 2, L0748: 2, L0749: 2, L0755: 2, L0605: 2, H0556: 1, S6024: 1, H0657: 1, H0638: 1, S0360: 1, S0408: 1, H0152: 1, S0046: 1, H0639: 1, H0587: 1, H0003: 1, H0004: 1, H0581: 1, H0263: 1, H0544: 1, H0057: 1, H0355: 1, H0375: 1, H0328: 1, L0055: 1, S0364: 1, T0067: 1, H0413: 1, H0512: 1, S0438: 1, S0440: 1, L0598: 1, L0640: 1, L0789: 1, H0690: 1, H0435: 1, H0659: 1, H0670: 1, S0380: 1, H0710: 1, H0521: 1, L0751: 1, L0754: 1, L0777: 1, L0780: 1, L0599: 1 and H0422: 1.	16q22.1-q22.3	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 245900, 245900, 276600, 600223
769	HEMCL55	581049	779	270 - 296	3376			AR089: 11, AR316: 9, AR060: 7 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1.		
770	HEMDB07	617137	780	99 - 203	3377	Met-26 to Glu-34.		S0046: 1 S0046: 1 and L0763: 1.		

771	HEMDR05	613273	781	92 - 322	3378	Arg-21 to Asp-33, Pro-41 to Gln-56, Asp-67 to Gly-75.	L0483: 2, H0657: 1, S0046: 1, H0510: 1, H0412: 1, L0769: 1, L0648: 1, L0363: 1, H0521: 1, H0696: 1, L0750: 1, L0777: 1 and L0780: 1.	18	
772	HEMGK71	847374	782	234 - 272	3379		H0444: 2, S0046: 1, L0764: 1, L0526: 1 and S0028: 1.		
773	HEOMF59	583518	783	21 - 170	3380		L0599: 2, H0457: 1 and T0041: 1.		
774	HEOMJ73	821327	784	148 - 210	3381		L0803: 4, L0756: 4, L0777: 4, S0242: 4, H0171: 2, S0212: 2, S0222: 2, S0010: 2, S0250: 2, H0144: 2, L0731: 2, H0170: 1, H0341: 1, L0021: 1, H0581: 1, H0457: 1, H0563: 1, H0567: 1, S0050: 1, S0214: 1, S0366: 1, H0551: 1, T0004: 1, S0038: 1, S0112: 1, H0538: 1, L0796: 1, L0768: 1, L0774: 1, L0659: 1, L0530: 1, L0666: 1, H0445: 1, L0366: 1 and H0506: 1.		
775	HEOMR67	833054	785	216 - 308	3382		L0748: 13, L0777: 10, L0803: 8, L0754: 6, L0804: 5, H0052: 4, H0457: 4, L0766: 4, L0740: 4, L0752: 4, H0556: 3, H0179: 3, L0770: 3, L0662: 3, L0805: 3, L0776: 3, L0756: 3, H0587: 2, H0620: 2, H0264: 2, S0210: 2, L0769: 2, L0794: 2, L0666: 2, L0665: 2, H0435: 2, H0670: 2, H0521: 2, L0744: 2, L0749: 2, L0731: 2, L0596: 2, S0196: 2, H0583: 1, H0255: 1, H0663: 1, H0662: 1, S0420: 1, S0007: 1, S0278: 1, H0549: 1, H0550: 1, H0612: 1, H0600: 1, H0632: 1, H0486: 1, S0280: 1, H0251: 1, H0263: 1, H0231: 1, L0738: 1, L0157: 1, H0050: 1, H0271: 1, H0719: 1, S0214: 1.		

776	HEOMU25	732063	786	84 - 188	3383				H0622: 1, H0038: 1, H0551: 1, H0560: 1, S0002: 1, S0426: 1, L0536: 1, L3904: 1, L0646: 1, L0641: 1, L0764: 1, L0771: 1, L0768: 1, L0774: 1, L0775: 1, L0493: 1, L0659: 1, L0783: 1, L0809: 1, L0647: 1, L5623: 1, L0787: 1, L0663: 1, T0068: 1, S0126: 1, H0689: 1, S0044: 1, S0406: 1, S0037: 1, L0747: 1, L0757: 1, L0759: 1, S0434: 1, L0597: 1 and H0506: 1. L0748: 4, H0457: 3 and S6022: 1.		
777	HEOMU44	778085	787	167 - 253	3384				AR089: 4, AR316: 3, AR060: 2 L0751: 13, L0748: 7, L0662: 6, L0766: 6, L0771: 5, L0794: 5, H0040: 3, L0764: 3, L0803: 3, L0666: 3, S0404: 3, L0747: 3, L0731: 3, H0486: 2, H0644: 2, H0551: 2, H0488: 2, L0665: 2, S0328: 2, L0754: 2, L0749: 2, L0758: 2, L0591: 2, L0601: 2, H0624: 1, H0265: 1, H0686: 1, H0341: 1, H0661: 1, H0402: 1, S0356: 1, L0717: 1, H0587: 1, H0013: 1, H0244: 1, H0036: 1, S0010: 1, S0049: 1, H0263: 1, H0457: 1, S0051: 1, H0188: 1, S0003: 1, S0214: 1, H0674: 1, H0212: 1, H0494: 1, L0369: 1, L0639: 1, L0667: 1, L0643: 1, L0774: 1, L0806: 1, L0653: 1, L0658: 1, L0809: 1, H0144: 1, H0547: 1, H0682: 1, H0683: 1, H0684: 1, H0659: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0406: 1, H0436: 1, S0434: 1	4	

778	HEONI85	566833	788	136 - 249	3385			1, L0595: 1, H0542: 1, H0423: 1, H0422: 1, S0398: 1 and S0424: 1. L0766: 11, H0255: 3, S0114: 2, H0254: 2, H0445: 2, H0584: 1, H0167: 1, H0661: 1, H0402: 1, H0589: 1, H0597: 1, H0457: 1, H0087: 1, L0769: 1, L0761: 1, L0803: 1, L0805: 1, L0655: 1, L0659: 1, L0790: 1, L0754: 1, L0779: 1, H0542: 1 and H0543: 1.		
779	HEONK04	658682	789	64 - 159	3386			S0474: 35, H0457: 17, H0677: 9, L0749: 6, H0581: 4, L0748: 4, S0116: 3, L0766: 3, L0775: 3, H0521: 3, H0656: 2, H0486: 2, H0090: 2, H0529: 2, L0761: 2, L0667: 2, H0701: 2, L0759: 2, H0458: 1, S0358: 1, H0580: 1, H0619: 1, H0645: 1, H0610: 1, H0039: 1, H0598: 1, H0264: 1, S0144: 1, S0422: 1, S0002: 1, S0426: 1, L0764: 1, L5574: 1, L0774: 1, L0375: 1, L0655: 1, L0661: 1, L0659: 1, L0665: 1, S0052: 1, H0702: 1, S0374: 1, H0660: 1, H0648: 1, H0539: 1, H0522: 1, L0779: 1, L0755: 1, L0731: 1, H0444: 1, H0543: 1 and H0423: 1. H0457: 4, L0748: 2 and L0777: 1. L0775: 3, H0150: 1 and T0067: 1.	12q13	10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
780	HEONP08	601691	790	38 - 259	3387	Ser-11 to Ser-25, Ser-56 to Val-65.				
781	HEPAD15	587299	791	223 - 345	3388					
782	HEPBC23	799985	792	123 - 149	3389			L0748: 11, L0779: 6, H0632: 3, L0803: 3, L0750: 3, L0755: 3, L0758: 3, H0624: 2, H0574: 2, L0605: 2, H0171: 1, H0431: 1, H0013: 1, H0150: 1, L0774: 1.	3p21	139330, 139360, 150250, 164500, 182280, 600163, 600971, 601226, 601267, 601373

783	HEPBV09	588404	793	294 - 416	3390		1, L0665: 1, L0747: 1, L0752: 1 and L0581: 1.		
784	HEPCF35	603521	794	259 - 372	3391		L0521: 2, L0752: 2, L0758: 2 and H0150: 1.	X	
785	HEPCU48	805585	795	1218 - 1493	3392		S0049: 1, H0150: 1 and L0766: 1.		
							AR242: 3, AR180: 3, AR039: 3, AR213: 3, AR224: 3, AR176: 3, AR170: 3, AR245: 3, AR169: 3, AR282: 3, AR161: 3, AR171: 3, AR225: 3, AR195: 2, AR215: 2, AR214: 2, AR053: 2, AR269: 2, AR308: 2, AR165: 2, AR271: 2, AR164: 2, AR196: 2, AR033: 2, AR166: 2, AR168: 2, AR204: 2, AR261: 2, AR222: 2, AR309: 2, AR291: 1, AR096: 1, AR183: 1, AR193: 1, AR268: 1, AR277: 1, AR162: 1, AR293: 1, AR243: 1, AR163: 1, AR240: 1, AR255: 1, AR178: 1, AR232: 1, AR089: 1, AR239: 1, L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1.	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575



786	HEQA47	877634	796	22 - 168	3393	Gly-30 to Ser-37.	<p>1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0774: 1, L0775: 1, L0776: 1, L0807: 1, L0659: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0682: 1, H0521: 1, H0478: 1, L0751: 1, L0755: 1, L0731: 1, L0759: 1, L0592: 1, L0608: 1, L0366: 1 and S0192: 1.</p> <p>L0809: 14, H0545: 10, L0731: 9, L0659: 8, L0794: 7, H0544: 5, L0662: 4, H0551: 3, L0777: 3, H0550: 2, H0486: 2, H0706: 2, L0639: 2, L0800: 2, L0648: 2, L0768: 2, L0666: 2, L0663: 2, L0751: 2, L0779: 2, H0717: 1, S0356: 1, S0360: 1, H0601: 1, H0581: 1, H0546: 1, H0123: 1, L0769: 1, L0761: 1, L0772: 1, L0641: 1, L0773: 1, L0803: 1, L0375: 1, L0806: 1, L0657: 1, L0658: 1, L0664: 1, H0660: 1, S0378: 1, H0696: 1, L0747: 1, L0750: 1, H0543: 1 and H0352: 1.</p>	2p23.3-p23.2	176830, 176830, 182601, 229800, 602134
787	HEQA92	637608	797	843 - 974	3394		<p>AR060: 8, AR316: 7, AR089: 5</p> <p>L0803: 9, L0794: 6, L0752: 6, L0664: 5, L0777: 5, S0003: 4, L0731: 4, H0497: 3, L0666: 3, H0208: 2, L0766: 2, L0804: 2, L0659: 2, H0521: 2, L0439: 2, L0749: 2, L0596: 2, H0663: 1, S0222: 1, H0455: 1, H0013: 1</p>	9p24	133550, 164759

788	HEQAV53	722016	798	130 - 246	3395			1, H0156: 1, S0010: 1, H0581: 1, H0544: 1, H0046: 1, H0566: 1, H0031: 1, H0553: 1, H0059: 1, H0494: 1, L0768: 1, L0774: 1, L0776: 1, L0527: 1, L0809: 1, L0789: 1, L0790: 1, L0665: 1, S0330: 1, H0696: 1, L0747: 1, L0755: 1, L0758: 1, S0031: 1, S0434: 1, L0608: 1, S0194: 1 and H0542: 1.		
789	HEQB01	834633	799	505 - 564	3396			S0144: 4, L0740: 4, H0559: 3, L0646: 2, L0731: 2, H0556: 1, H0663: 1, H0458: 1, S0418: 1, S0278: 1, H0370: 1, H0257: 1, H0635: 1, S0474: 1, H0544: 1, H0009: 1, H0023: 1, H0328: 1, H0413: 1, L0763: 1, L0769: 1, L0644: 1, L0764: 1, L0794: 1, L5574: 1, L0659: 1, L0788: 1, L0663: 1, L0665: 1, S0126: 1, H0521: 1, S0406: 1, S0027: 1, L0777: 1, L0780: 1, S0434: 1, S0436: 1, L0588: 1, S0242: 1 and H0542: 1.		
								AR089: 9, AR316: 7, AR060: 5 L0439: 8, L0758: 7, L0777: 5, L0794: 4, L0804: 4, L0438: 4, L0747: 4, S0360: 3, H0619: 3, H0031: 3, H0616: 3, L0803: 3, L0748: 3, L0755: 3, H0052: 2, H0628: 2, H0673: 2, H0038: 2, L0769: 2, L0766: 2, L0809: 2, L0666: 2, L0602: 2, L0759: 2, L0362: 2, H0686: 1, H0685: 1, H0656: 1, L0470: 1, S0356: 1, S0358: 1, H0393: 1, H0437: 1, H0453: 1, T0039: 1, H0156: 1, H0581: 1, T0110: 1, H0544: 1, H0046: 1, H0570: 1, H0081: 1.		

790	HEQB101	861786	800	2603 - 2662	3397					1, S0051: 1, H0355: 1, H0510: 1, H0266: 1, L0455: 1, H0163: 1, H0551: 1, H0100: 1, L0370: 1, H0561: 1, H0647: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0768: 1, L0776: 1, L0517: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, H0672: 1, S0152: 1, H0696: 1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1.		
										AR089: 9, AR316: 7, AR060: 5 L0439: 8, L0758: 7, L0777: 5, L0794: 4, L0804: 4, L0438: 4, L0747: 4, S0360: 3, H0619: 3, H0031: 3, H0616: 3, L0803: 3, L0748: 3, L0755: 3, H0052: 2, H0628: 2, H0673: 2, H0038: 2, L0769: 2, L0766: 2, L0809: 2, L0666: 2, L0602: 2, L0759: 2, L0362: 2, H0686: 1, H0685: 1, H0656: 1, L0470: 1, S0356: 1, S0358: 1, H0393: 1, H0437: 1, H0453: 1, T0039: 1, H0156: 1, H0581: 1, T0110: 1, H0544: 1, H0046: 1, H0570: 1, H0081: 1, S0051: 1, H0355: 1, H0510: 1, H0266: 1, L0455: 1, H0163: 1, H0551: 1, H0100: 1, L0370: 1, H0561: 1, H0647: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0768: 1, L0776: 1, L0517: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, H0672: 1, S0152: 1, H0696: 1.	16	

791	HEQBJ01	876546	801	2603 - 2662	3398				1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1. AR089: 9, AR316: 7, AR060: 5 L0439: 8, L0758: 7, L0777: 5, L0794: 4, L0804: 4, L0438: 4, L0747: 4, S0360: 3, H0619: 3, H0031: 3, H0616: 3, L0803: 3, L0748: 3, L0755: 3, H0052: 2, H0628: 2, H0673: 2, H0038: 2, L0769: 2, L0766: 2, L0809: 2, L0666: 2, L0602: 2, L0759: 2, L0362: 2, H0686: 1, H0685: 1, H0656: 1, L0470: 1, S0356: 1, S0358: 1, H0393: 1, H0437: 1, H0453: 1, T0039: 1, H0156: 1, H0581: 1, T0110: 1, H0544: 1, H0046: 1, H0570: 1, H0081: 1, S0051: 1, H0355: 1, H0510: 1, H0266: 1, L0455: 1, H0163: 1, H0551: 1, H0100: 1, L0370: 1, H0561: 1, H0647: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0768: 1, L0776: 1, L0517: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, H0672: 1, S0152: 1, H0696: 1, H0436: 1, S0027: 1, L0749: 1, L0779: 1, L0752: 1, L0757: 1, H0595: 1, L0593: 1, S0026: 1, S0194: 1 and H0677: 1.		
792	HEQBM94	580823	802	76 - 480	3399	Lys-38 to Lys-46, Arg-83 to Thr-90.			L0766: 4, L0591: 4, H0657: 2, H0593: 2, L0759: 2, L0596: 2, H0656: 1, H0484: 1, S0418: 1, S0420: 1, S0356: 1, H0587: 1, H0544: 1, H0135: 1, L0667: 1, L0800: 1, L0771: 1, L0768: 1.		

793	HEQCB93	570801	803	81 - 188	3400				1, L0794: 1, L0649: 1, L0803: 1, L0804: 1, L0805: 1, L0787: 1, L0532: 1, L0666: 1, H0658: 1, L0743: 1, L0749: 1, L0779: 1 and L0731: 1.			601493
									L0794: 4, L0803: 4, H0328: 3, L0779: 3, L0515: 2, L0809: 2, H0144: 2, L0754: 2, L0756: 2, L0759: 2, H0171: 1, S0282: 1, H0346: 1, S0222: 1, H0441: 1, H0486: 1, H0069: 1, H0052: 1, H0544: 1, H0266: 1, L0598: 1, L0638: 1, L0766: 1, L0650: 1, L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0758: 1, H0343: 1 and H0665: 1.	10q22.2		
794	HERAI63	637610	804	227 - 301	3401				H0345: 1			
795	HERAQ22	603522	805	95 - 214	3402			Pro-20 to Gly-26.	H0345: 1			
796	HERAS61	603186	806	98 - 136	3403				H0345: 1			
797	HESAG57	855936	807	453 - 494	3404				AR060: 5, AR316: 5, AR089: 4 H0038: 3, H0616: 2, S0282: 1, H0575: 1, H0086: 1, S0003: 1, H0268: 1, T0042: 1, L0794: 1, L0774: 1, L0791: 1, H0519: 1, L0602: 1, S0332: 1, S0028: 1, L0743: 1, L0747: 1, S0436: 1 and H0665: 1.	1pter-p36.13		
798	HETAA62	828737	808	1198 - 1329	3405			Met-35 to Lys-40.	AR089: 17, AR316: 11, AR060: 6 L0439: 7, L0438: 6, L0771: 5, L0742: 4, L0777: 4, L0741: 3, T0010: 2, S0356: 1, S0360: 1, S0222: 1, H0453: 1, H0592: 1, H0586: 1, H0590: 1, H0263: 1, H0121: 1, H0046: 1, S6028:			

799	HETBB70	738530	809	263 - 316	3406			1, T006: 1, H0032: 1, H0673: 1, S0440: 1, L0772: 1, L0372: 1, L0764: 1, L0775: 1, L0375: 1, L0527: 1, L0518: 1, L0384: 1, S0148: 1, H0672: 1, H0539: 1, L0747: 1, L0756: 1, L0779: 1, L0755: 1, L0758: 1 and L0589: 1.		
800	HETBJ88	855937	810	183 - 407	3407	Glu-2 to Leu-13, Gly-61 to Lys-73.		H0046: 8, L0369: 1, H0519: 1, L0779: 1 and H0444: 1. AR231: 9, AR254: 9, AR237: 8, AR197: 8, AR238: 7, AR195: 7, AR242: 7, AR250: 7, AR272: 7, AR198: 6, AR245: 6, AR228: 6, AR268: 6, AR033: 6, AR239: 6, AR178: 6, AR053: 5, AR161: 5, AR212: 5, AR182: 5, AR226: 5, AR162: 5, AR177: 5, AR290: 5, AR163: 5, AR234: 5, AR181: 5, AR267: 5, AR104: 5, AR246: 5, AR230: 5, AR309: 5, AR229: 5, AR204: 4, AR233: 4, AR311: 4, AR270: 4, AR205: 4, AR264: 4, AR214: 4, AR096: 4, AR263: 4, AR243: 4, AR180: 4, AR289: 4, AR266: 4, AR225: 4, AR176: 4, AR222: 4, AR213: 4, AR269: 4, AR199: 4, AR203: 4, AR200: 4, AR201: 4, AR240: 4, AR271: 4, AR188: 4, AR275: 4, AR300: 4,	1q43	106150, 106150, 156570, 600996, 601975, 602759



801	HETCM67	861909	811	14 - 1318	3408	<p>His-9 to Cys-16, Glu-79 to Cys-89, Pro-127 to Asp-133, Cys-138 to Asn-144, Pro-146 to Gln-151, Pro-156 to Gly-162, Ser-190 to Gly-202, Thr-247 to Ser-254, Gly-263 to Asp-268, Lys-282 to Gly-295, Gln-349 to Leu-362, Thr-364 to Gln-377, Gln-383 to His-393, Glu-400 to Ala-406, Phe-408 to Ala-414, Phe-420 to Ala-435.</p>	<p>1, H0645: 1, H0574: 1, H0486: 1, H0013: 1, S0010: 1, H0251: 1, H0327: 1, H0046: 1, L0041: 1, H0510: 1, S0214: 1, H0328: 1, H0030: 1, H0553: 1, H0644: 1, H0032: 1, S0344: 1, S0002: 1, L0369: 1, L0667: 1, L0364: 1, L0803: 1, L0775: 1, L0776: 1, L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0519: 1, H0670: 1, H0521: 1, L0744: 1, L0439: 1, L0747: 1, L0779: 1 and L0591: 1.</p>	<p>AR248: 17, AR249: 15, AR213: 10, AR052: 8, AR251: 7, AR053: 6, AR253: 6, AR263: 5, AR235: 5, AR169: 5, AR273: 4, AR296: 4, AR186: 4, AR265: 4, AR243: 4, AR300: 4, AR198: 4, AR202: 4, AR204: 4, AR206: 3, AR310: 3, AR060: 3, AR241: 3, AR096: 3, AR244: 3, AR299: 3, AR225: 3, AR270: 3, AR214: 3, AR292: 3, AR055: 3, AR061: 3, AR283: 3, AR089: 3, AR192: 3, AR295: 3, AR267: 2, AR185: 2, AR171: 2, AR316: 2, AR284: 2, AR194: 2, AR039: 2, AR286: 2, AR205: 2, AR282: 2, AR268: 2, AR182: 2, AR269: 2, AR309: 2, AR033: 2, AR313: 2, AR290: 2, AR175: 2,</p>	8		
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802	HETDD61	800668	812	148 - 246	3409			H0046: 5, L0756: 3, L0749: 2, H0672: 1 and L0779: 1.					
803	HETDD61	852381	813	148 - 246	3410			H0046: 5, L0756: 3, L0749: 2, H0672: 1 and L0779: 1.					
804	HETDJ34	637614	814	64 - 147	3411			L0805: 5, S0422: 4, L0731: 4, L0766: 3, L0803: 3, L0527: 3, L0743: 3, L0717: 2, H0046: 2, L0745: 2, L0597: 2, S0356: 1, S0360: 1, H0351: 1, S0222: 1, H0013: 1, H0546: 1, S0050: 1, S0003: 1, T0006: 1, H0412: 1, L0520: 1, L0763: 1, L0637: 1, L0761: 1, L0768: 1, L0804: 1, L0776: 1, L0526: 1, L0790: 1, L0665: 1, H0144: 1, H0520:	21q11				

805	HETDM73	847071	815	177 - 221	3412			1, H0539: 1, S0378: 1, L0754: 1, L0779: 1, L0780: 1, L0759: 1, S0242: 1 and H0542: 1. AR089: 44, AR316: 24, AR060: 5 H0046: 6, L0666: 6, L0662: 5, L0809: 4, L0664: 4, L0777: 4, S0360: 3, L0483: 3, L0764: 3, L0649: 3, L0663: 3, S0328: 3, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0263: 2, H0032: 2, L0648: 2, L0805: 2, L0518: 2, L0665: 2, S0374: 2, H0696: 2, H0478: 2, L0596: 2, H0686: 1, H0638: 1, S0356: 1, S0376: 1, H0431: 1, H0592: 1, H0013: 1, H0596: 1, S0003: 1, H0615: 1, H0622: 1, H0212: 1, S0448: 1, H0131: 1, H0646: 1, L0763: 1, L0761: 1, L0372: 1, L0800: 1, L0773: 1, L0381: 1, L0803: 1, L0527: 1, L0519: 1, L0543: 1, S0148: 1, H0690: 1, H0682: 1, H0670: 1, S0330: 1, H0522: 1, S0190: 1, L0744: 1, L0752: 1, L0599: 1 and S0026: 1. AR089: 30, AR316: 28, AR060: 27 H0046: 9, S0250: 3, H0031: 3, L0744: 3, L0748: 3, L0758: 3, H0618: 2, L0766: 2, L0659: 2, L0809: 2, L0747: 2, L0756: 2, L0779: 2, L0777: 2, L0596: 2, H0352: 2, H0556: 1, H0140: 1, H0341: 1, H0662: 1, S0356: 1, S0358: 1, H0013: 1, H0253: 1, H0581: 1, H0545: 1, H0563: 1, H0644: 1, H0616: 1, H0488: 1, S0038: 1, L0770: 1, L0769: 1, L0796: 1, L5575: 1, L0800: 1,
806	HETDP76	782836	816	1323 - 1640	3413	Glu-17 to Ser-34.		

807	HETFO57	844190	817	195 - 305	3414	Gln-28 to Gly-36.	1, L0642: 1, L0764: 1, L0662: 1, L0381: 1, L0805: 1, L0776: 1, L0655: 1, L0526: 1, L0790: 1, L4501: 1, L0532: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0648: 1, S0152: 1, H0521: 1, H0576: 1, L0743: 1, L0749: 1, L0750: 1, L0780: 1, L0757: 1, L0594: 1 and H0422: 1.			
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808	HETGZ31	847072	818	127 - 192	3415		AR089: 22, AR316: 16, AR060: 11 L0748: 10, S0476: 6, H0547: 6, L0439: 6, L0754: 6, H0556: 5, H0013: 5, H0052: 5, S0418: 4, H0046: 4, H0024: 4, L0662: 4, L0766: 4, L0657: 4, L0666: 4, H0144: 4, L0779: 4, L0593: 4, H0692: 3, S0358: 3, S0440: 3, L0520: 3, H0659: 3, H0648: 3, L0755: 3, L0731: 3, L0759: 3.	16		

809	HETHD26	771521	819	229 - 318	3416					3, S0384: 3, H0171: 2, H0265: 2, H0294: 2, S0282: 2, H0638: 2, S0045: 2, H0156: 2, H0051: 2, H0266: 2, H0252: 2, H0039: 2, H0617: 2, H0616: 2, H0488: 2, L0770: 2, L0776: 2, L0783: 2, L0663: 2, L0438: 2, H0519: 2, L0749: 2, L0757: 2, L0588: 2, L0485: 2, S0011: 2, H0352: 2, H0624: 1, H0685: 1, S0360: 1, S0408: 1, H0208: 1, S0046: 1, H0393: 1, S6014: 1, H0370: 1, H0600: 1, H0587: 1, H0244: 1, L0021: 1, H0599: 1, H0575: 1, H0706: 1, S0010: 1, H0318: 1, H0581: 1, L0738: 1, H0545: 1, H0123: 1, L0471: 1, H0012: 1, H0292: 1, S0003: 1, S0022: 1, L0483: 1, H0644: 1, H0111: 1, H0673: 1, S0036: 1, H0135: 1, H0038: 1, H0268: 1, H0413: 1, H0059: 1, L0475: 1, H0560: 1, S0438: 1, S0150: 1, H0633: 1, L0640: 1, L4747: 1, L0796: 1, L0667: 1, L0772: 1, L0641: 1, L0374: 1, L0764: 1, L0773: 1, L0364: 1, L0389: 1, L0650: 1, L0775: 1, L0378: 1, L0655: 1, L0518: 1, L0664: 1, S0006: 1, H0520: 1, H0684: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, L0602: 1, H0696: 1, S0406: 1, H0555: 1, H0345: 1, L0747: 1, L0777: 1, L0752: 1, S0260: 1, H0445: 1, H0707: 1, S0434: 1, L0597: 1, L0591: 1, L0599: 1, L0601: 1, H0653: 1, H0542: 1, H0543: 1, S0042: 1 and S0424: 1.	AR089: 11, AR316: 9, 22q11.2	123620, 138720.
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810	HETHM27	610080	820	121 - 213	3417			AR060: 8 H0556: 4, L0749: 4, L0438: 3, H0046: 2, H0457: 2, H0135: 2, L0741: 2, L0744: 2, L0747: 2, L0779: 2, L0777: 2, L0758: 2, H0624: 1, H0265: 1, H0686: 1, S0114: 1, H0657: 1, S0001: 1, H0497: 1, H0270: 1, H0013: 1, H0194: 1, H0024: 1, H0594: 1, H0674: 1, H0038: 1, H0059: 1, H0100: 1, L0774: 1, L0375: 1, L0805: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, L0665: 1, H0659: 1, H0672: 1, L0743: 1, L0754: 1, L0786: 1 and H0543: 1.		145410, 231950, 239500, 275350, 600850
								20pter-q12		
811	HETIN36	840363	821	252 - 407	3418	Pro-36 to Gln-48.		AR060: 37, AR316: 31, AR089: 24 S0358: 52, S0406: 46, S0442: 40, S0354: 40, S0408: 31, S0444: 29, S0374: 23, S0404: 17, L0803: 15, S0410: 13, S0434: 13, S0360: 10, H0590: 7, S0376: 6, L0664: 6, L0599: 6, S0440: 5, L0666: 5, S0330: 5, L0373: 4, L0662: 4, L0805: 4, H0575: 3, H0036: 3, H0597: 3, S0328: 3, L0744: 3, H0506: 3, H0042: 2, L0040: 2, L0374:		

812	HFAAI17	607563	822	16 - 108	3419			2, L0774: 2, L0776: 2, H0672: 2, L0743: 2, H0669: 1, S0356: 1, H0676: 1, H0637: 1, H0645: 1, H0550: 1, H0263: 1, H0596: 1, H0231: 1, L0738: 1, H0046: 1, H0050: 1, H0674: 1, S0370: 1, H0649: 1, L0646: 1, L0653: 1, L0809: 1, H0648: 1, H0555: 1, S0432: 1 and L0600: 1, S0624: 1		
813	HFAAJ45	784174	823	344 - 436	3420			AR060: 7, AR316: 7, AR089: 6 S6024: 1, H0306: 1, T0039: 1, H0052: 1, H0641: 1, L0553: 1, L0766: 1, L0518: 1 and L0608: 1		
814	HFADF41	607557	824	233 - 253	3421			S6024: 1		
815	HFADM09	899435	825	236 - 355	3422			H0052: 2, H0591: 2, L0439: 2, L0754: 2, H0220: 1, S6024: 1, S0116: 1, S0222: 1, H0587: 1, H0574: 1, S0280: 1, H0023: 1, H0320: 1, H0179: 1, S0214: 1, S0448: 1, L0803: 1, L0438: 1, H0670: 1, H0539: 1, L0777: 1 and H0422: 1		
816	HFAUA23	636071	826	52 - 222	3423		Pro-49 to Pro-56.	H0556: 2, H0519: 2, L0749: 2, H0661: 1, S0300: 1, S0010: 1, H0050: 1, H0090: 1, T0041: 1, L0794: 1, L0438: 1 and H0521: 1		
817	HFCAG75	834834	827	153 - 287	3424					
818	HFCAI40	866441	828	2 - 2269	3425	Leu-133 to Leu-143, Ala-205 to Thr-210, Thr-225 to Lys-230, Leu-258 to Tyr-266, Glu-290 to Lys-295, Lys-345 to Tyr-351, Asp-417 to Lys-422, Ser-439 to Ala-447,		AR309: 4, AR271: 4, AR265: 4, AR312: 4, AR052: 4, AR292: 4, AR194: 3, AR295: 3, AR213: 3, AR310: 3, AR183: 3, AR053: 3, AR247: 3, AR184: 3, AR294: 3, AR273: 3,	5p14.3-q15	123000, 600857

Asn-482 to Arg-488, Tyr-512 to Glu-517, Asn-544 to Gln-551, Leu-566 to Leu-573, Lys-685 to Leu-696, Tyr-723 to Tyr-728, Ala-738 to Asp-743, Asn-750 to Ser-755.	AR251: 3, AR248: 2, AR243: 2, AR202: 2, AR313: 2, AR175: 2, AR274: 2, AR253: 2, AR293: 2, AR282: 2, AR269: 2, AR206: 2, AR266: 2, AR227: 2, AR060: 2, AR089: 2, AR289: 2, AR237: 2, AR259: 2, AR039: 2, AR256: 1, AR316: 1, AR234: 1, AR300: 1, AR258: 1, AR185: 1, AR218: 1, AR219: 1, AR299: 1, AR238: 1, AR186: 1, AR096: 1, AR033: 1, AR268: 1 L0809: 21, L0747: 16, L0439: 14, H0673: 12, L0518: 12, L0517: 11, H0696: 11, H0674: 10, L0803: 10, L0779: 10, L0526: 9, L0519: 9, L0748: 8, L0754: 8, L0770: 7, L0666: 7, L0740: 7, L0752: 7, H0169: 6, L0659: 6, L0749: 6, L0750: 5, L0759: 5, L0362: 5, H0494: 4, L0521: 4, L0766: 4, L0649: 4, L0664: 4, H0547: 4, S0040: 3, S0360: 3, L0471: 3, L0769: 3, L0761: 3, L0794: 3, L0774: 3, L0783: 3, L0529: 3, L0663: 3, L0665: 3, L0438: 3, S0126: 3, S0328: 3, L0758: 3, H0170: 2, H0171: 2, S0212: 2, S0356: 2, S0354: 2, S0408: 2, H0393: 2, S0222: 2, H0574: 2, H0013: 2, H0156: 2, L0105: 2, T0110: 2, H0545: 2, H0051: 2, S0051: 2, S0003: 2, H0428: 2, L0483: 2, H0553: 2, H0166: 2,
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819	HFCBQ17	695720	829	20 - 265	3426	Ser-66 to Ser-81.	S0031: 1, S0260: 1, S0394: 1, L0588: 1, L0599: 1, L0595: 1, S0026: 1, S0192: 1, S0276: 1, S0196: 1, H0423: 1 and S0462: 1. H0494: 2, S0116: 1, H0431: 1, H0231: 1, H0009: 1, L0776: 1, L0755: 1 and H0136: 1. H0009: 1		
820	HFCBC16	559312	830	141 - 230	3427	Trp-19 to Ala-24, Gly-32 to Met-39.	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	17p13.2	
821	HFCBL53	845800	831	307 - 426	3428				
822	HFCBL53	852457	832	307 - 426	3429	Trp-19 to Ala-24, Gly-32 to Met-39.	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	17p13.2	
823	HFCBL53	858733	833	307 - 426	3430	Trp-19 to Ala-24, Gly-32 to Met-39.	L0439: 11, L0438: 6, L0351: 5, H0009: 4, H0178: 3, L0740: 3, S0007: 2, H0013: 2, L0638: 2, L0776: 2, H0144: 2, H0170: 1, H0265: 1, H0556: 1, S6024: 1, S0001: 1, S0300: 1, L0717: 1, S0222: 1, H0455: 1, S0010: 1, S0346: 1, L0738: 1, S0388: 1, H0252: 1, S0036: 1, H0135: 1, H0163: 1, H0494: 1, L0790: 1, H0134: 1, S0028: 1, L0779: 1, L0777: 1, L0759: 1, L0366: 1, S0026: 1, H0677: 1 and S0384: 1.	17p13.2	



[illegible]

827	HFCDT67	598900	837	138 - 449	3434	Ala-94 to Pro-103.	1, L0363: 1, L0768: 1, L0794: 1, L0804: 1, L0806: 1, L0805: 1, L0653: 1, L0493: 1, L0517: 1, L0782: 1, L0783: 1, L0647: 1, L0789: 1, L0790: 1, H0593: 1, H0689: 1, H0690: 1, S0330: 1, S0044: 1, H0694: 1, H0555: 1, H0626: 1, L0756: 1, L0753: 1, L0755: 1, H0445: 1, S0434: 1, L0592: 1, L0608: 1, L0593: 1, S0196: 1, H0543: 1, H0422: 1, S0424: 1, S0456: 1, H0506: 1 and H0008: 1.		
			837	138 - 449	3434	Ala-94 to Pro-103.	L0438: 9, L0748: 7, L0749: 5, L0662: 4, L0439: 4, L0747: 4, L0659: 3, L0766: 2, L0775: 2, L0666: 2, L0779: 2, H0624: 1, H0171: 1, H0716: 1, H0583: 1, H0656: 1, S0001: 1, H0662: 1, S0358: 1, H0549: 1, H0574: 1, H0052: 1, H0009: 1, H0014: 1, S0051: 1, T0010: 1, H0416: 1, S0316: 1, H0039: 1, H0056: 1, H0625: 1, S0002: 1, S0426: 1, L0764: 1, L0773: 1, L0789: 1, L0663: 1, L0664: 1, H0144: 1, S0126: 1, L0750: 1, L0755: 1, H0445: 1, L0595: 1 and H0422: 1.	11	
828	HFCDY36	834512	838	628 - 720	3435		L0439: 3, H0009: 2, L0638: 1 and L0438: 1.		
829	HFCEC45	847384	839	164 - 445	3436	Met-76 to Gly-82.	H0457: 8, S0116: 1, S0442: 1, H0549: 1, H0415: 1, H0009: 1, H0179: 1, H0687: 1, H0040: 1, H0551: 1, H0264: 1, H0633: 1, S0052: 1, H0519: 1, S0126: 1 and H0423: 1.		
830	HFCE743	596813	840	238 - 378	3437	Pro-17 to Arg-25.	L0438: 6, L0805: 5, L0766: 4, L0731: 4, L0794: 3, L0665: 3, S0360: 2, H0052: 2, H0009: 1	22q12.3	138981, 188826, 190040, 190040, 190040, 600850,

831	HFEAG55	838142	841	43 - 528	3438	Ala-29 to Thr-34, Pro-55 to Gly-67.	2, L0776: 2, L0748: 2, L0747: 2, S0001: 1, H0484: 1, L0617: 1, L0717: 1, H0351: 1, S0222: 1, H0600: 1, S0005: 1, H0599: 1, H0122: 1, S0010: 1, H0327: 1, H0046: 1, H0135: 1, H0488: 1, L0598: 1, L0762: 1, L0769: 1, L0803: 1, L0655: 1, L0659: 1, L0789: 1, L0744: 1, L0439: 1, L0745: 1, L0750: 1, L0777: 1 and S0194: 1.		601669
							AR184: 7, AR266: 4, AR253: 4, AR290: 3, AR270: 3, AR194: 3, AR282: 2, AR039: 1, AR096: 1, AR277: 1, AR313: 1, AR284: 1, AR286: 1, AR294: 1 L0758: 6, H0620: 4, L0769: 4, L0777: 4, H0556: 3, S0420: 2, L0770: 2, L0803: 2, L0776: 2, L0659: 2, L0666: 2, S0374: 2, L0748: 2, L0591: 2, H0265: 1, H0685: 1, S0134: 1, H0484: 1, S0354: 1, S0360: 1, S0408: 1, H0580: 1, H0415: 1, H0587: 1, H0599: 1, H0053: 1, H0052: 1, H0081: 1, H0288: 1, H0428: 1, H0059: 1, H0633: 1, L0766: 1, L0650: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, S0378: 1, H0521: 1, L0439: 1, L0740: 1, L0751: 1, L0755: 1, L0595: 1, H0665: 1, S0424: 1 and H0677: 1.	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
832	HFEAU63	790190	842	9 - 44	3439		AR060: 3, AR316: 2, AR089: 2 H0081: 1		

833	HFEB A88	684297	843	385 - 558	3440	Gln-25 to Arg-31.	AR089: 18, AR316: 15, AR060: 12 L0748: 7, L0751: 6, L0731: 6, L0747: 5, L0803: 4, L0774: 3, L0663: 3, H0539: 3, H0478: 3, L0749: 3, H0586: 2, H0587: 2, H0599: 2, L0764: 2, L0775: 2, L0384: 2, S0374: 2, H0670: 2, L0777: 2, L0752: 2, L0757: 2, H0624: 1, H0484: 1, H0411: 1, S0222: 1, H0441: 1, H0438: 1, H0574: 1, L0622: 1, L0623: 1, L0021: 1, S0049: 1, H0123: 1, H0081: 1, H0024: 1, H0057: 1, H0014: 1, H0266: 1, H0058: 1, H0633: 1, L0763: 1, L0770: 1, L0373: 1, L0646: 1, L0662: 1, L0386: 1, L0806: 1, L0809: 1, L0787: 1, L0666: 1, H0693: 1, S0126: 1, H0658: 1, S0146: 1, S0390: 1, L0750: 1, L0756: 1, L0755: 1, L0758: 1, L0759: 1, L0581: 1, H0506: 1 and L0600: 1.		
834	HFEBK75	855938	844	228 - 434	3441	Leu-23 to Ala-33.	AR089: 526, AR316: 370, AR060: 227 H0081: 1		
835	HFEB O15	831772	845	542 - 553	3442		AR060: 10, AR316: 9, AR089: 9 H0305: 6, L0754: 4, L0794: 3, L0617: 2, S0360: 2, H0135: 2, H0087: 2, L0764: 2, L0649: 2, S0328: 2, L0757: 2, L0411: 1, H0265: 1, S0358: 1, S0045: 1, S0278: 1, H0550: 1, T0104: 1, H0427: 1, H0581: 1, H0544: 1, H0546: 1, H0081: 1, H0620: 1, H0024: 1, H0051: 1, H0617: 1, H0040: 1, S0002: 1, L0769: 1, L0372: 1, L0767: 1, L0774: 1	22q13	102480, 138981, 188826, 190040, 190040, 190040, 600850, 601669, 602229

								1, L0809: 1, L0789: 1, L0743: 1, L0747: 1 and L0750: 1.			
836	HFEBO17	852218	846	136 - 219	3443			AR089: 12, AR316: 11, AR060: 10 H0081: 1			
837	HFFAE46	654843	847	93 - 197	3444			H0346: 1, H0172: 1 and H0665: 1.			
838	HFFAH01	843438	848	72 - 224	3445	Pro-18 to Gln-25, Ser-45 to Pro-50.		AR060: 7, AR316: 6, AR089: 4 H0172: 2, S0354: 1, S0222: 1, H0357: 1 and H0318: 1.	19p13.3		108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
839	HFFAL70	827570	849	178 - 258	3446			L0766: 25, L0769: 8, L0794: 6, H0087: 5, L0749: 5, H0617: 4, L0731: 4, L0756: 3, H0265: 2, H0620: 2, L0764: 2, L0803: 2, L0806: 2, L0789: 2, S0126: 2, H0670: 2, L0742: 2, L0748: 2, L0754: 2, L0747: 2, L0750: 2, L0777: 2, H0556: 1, H0294: 1, S0134: 1, S0116: 1, H0484: 1, H0255: 1, S0418: 1, S0360: 1, H0370: 1, H0455: 1, H0330: 1, H0492: 1, L0586: 1, L0021: 1, H0310: 1, H0309: 1, H0204: 1, H0009: 1, L0157: 1, H0172: 1, H0012: 1, T0010: 1, H0083: 1, S0022: 1, H0181: 1, H0606: 1, H0040: 1, S0038: 1, T0042: 1, S0370: 1, H0538: 1, L0796: 1, L0768: 1, L0633: 1, L0809: 1, L0788: 1, L0666: 1, H0658: 1, H0660: 1, H0648: 1, H0521: 1, H0696: 1, L0439: 1, L0779: 1, L0752: 1, L0592: 1 and H0352: 1.			
840	HFFAV61	664486	850	56 - 208	3447			H0575: 1 and H0172: 1.	16q22-q23		103850, 114835,

841	HFGAB50	831761	851	1833 - 1916	3448			AR089: 16, AR316: 12, AR060: 8 S0444: 24, S0442: 15, S0408: 13, S0374: 11, S0358: 8, H0046: 7, L0754: 6, L0666: 5, L0749: 5, L0803: 4, L0805: 4, L0777: 4, S0354: 3, L0794: 3, L0663: 3, L0756: 3, L0752: 3, H0309: 2, L0763: 2, L0770: 2, L0638: 2, L0637: 2, L0521: 2, L0662: 2, L0766: 2, L0791: 2, H0648: 2, S0026: 2, L0600: 2, H0624: 1, H0686: 1, S0116: 1, S0212: 1, H0663: 1, H0402: 1, H0675: 1, S0045: 1, H0587: 1, S0414: 1, H0486: 1, H0427: 1, H0053: 1, H0421: 1, H0178: 1, H0563: 1, L0471: 1, H0014: 1, H0051: 1, H0687: 1, S0250: 1, H0111: 1, H0032: 1, H0090: 1, H0264: 1, H0488: 1, T0041: 1, H0509: 1, S0142: 1, L0520: 1, L0650: 1, L0790: 1, L0664: 1, L0665: 1, H0144: 1, H0711: 1, H0684: 1, S0330: 1, S0404: 1, L0747: 1, L0780: 1, L0755: 1, L0757: 1, L0758: 1 and S0434: 1.		121360, 217800, 218030
842	HFGAE28	815658	852	347 - 385	3449			AR089: 26, AR316: 21, AR060: 16 L0794: 7, L0740: 7, L0776: 4, H0046: 3, L0805: 3, L0749: 3, L0731: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0742: 2, L0748: 2, L0754: 2, L0747: 2, L0777: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178:	11	



843	HFGAN63	708053	853	507 - 638	3450	Thr-31 to Glu-41.	1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1, S0126: 1, H0670: 1, L0743: 1, L0779: 1, L0780: 1 and L0759: 1.		
844	HFHDN80	899438	854	259 - 561	3451	Met-1 to Gln-7, Pro-23 to Thr-40, Leu-85 to Lys-101.	AR060: 5, AR316: 5, AR089: 4 L0592: 2, H0013: 1, H0178: 1, H0099: 1, H0032: 1, H0529: 1, L0772: 1, H0521: 1 and L0780: 1.		
845	HFIAB78	581054	855	183 - 248	3452		H0619: 3, H0264: 2, S0116: 1, S0354: 1, H0645: 1, H0639: 1, H0708: 1, S0002: 1, L0662: 1, H0519: 1, L0743: 1, L0748: 1 and L0731: 1. L0766: 12, H0581: 5, L0439: 5, L0754: 5, L0750: 5, H0050: 4, S0003: 4, H0622: 4, H0090: 4, H0521: 4, L0748: 4, L0740: 4, L0779: 4, L0731: 4, H0619: 3, H0574: 3, H0635: 3, S0346: 3, H0046: 3, H0615: 3, L0483: 3, L0666: 3, S0126: 3, S0380: 3, L0745: 3, L0752: 3, S0026: 3, H0171: 2, S0116: 2, S0212: 2, H0661: 2, H0441: 2, H0575: 2, H0553: 2, H0591: 2, H0038: 2, T0067: 2, H0509: 2, S0002: 2, L0768: 2, L0775: 2, L0776: 2, L0659: 2, L0565: 2, L0438: 2, L0753: 2, L0758: 2, L0605: 2, L0592: 2, H0506: 2, H0170: 1, H0556: 1, H0140: 1, L0002: 1, H0656: 1, H0662: 1, S0418: 1, S0358: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, S0045: 1, S0046: 1, H0645: 1, H0369: 4		

846	HFIAD23	581055	856	30 - 113	3453			1, H0431: 1, H0370: 1, H0492: 1, H0486: 1, H0013: 1, H0244: 1, H0069: 1, H0427: 1, H0599: 1, H0042: 1, H0590: 1, H0196: 1, H0052: 1, H0194: 1, H0309: 1, L0471: 1, H0024: 1, H0057: 1, H0015: 1, H0373: 1, S0388: 1, S0051: 1, T0010: 1, H0109: 1, S6028: 1, H0267: 1, H0179: 1, S0250: 1, S0022: 1, H0252: 1, T0006: 1, H0644: 1, L0055: 1, H0674: 1, L0455: 1, H0598: 1, H0634: 1, H0616: 1, H0488: 1, H0623: 1, H0646: 1, L0598: 1, L0762: 1, L0770: 1, L0646: 1, L0764: 1, L0773: 1, L0803: 1, L0804: 1, L0774: 1, L0655: 1, L0783: 1, L0529: 1, L0663: 1, L0664: 1, S0052: 1, S0428: 1, S0374: 1, H0547: 1, H0659: 1, H0660: 1, H0648: 1, S0152: 1, H0522: 1, H0555: 1, S0028: 1, S0206: 1, L0749: 1, L0756: 1, L0755: 1, L0757: 1, H0595: 1, L0366: 1, S0192: 1, H0542: 1, H0543: 1, H0422: 1, S0424: 1 and L0462: 1.		
								S0192: 40, L0766: 8, H0581: 5, H0436: 5, H0090: 4, H0543: 4, H0575: 3, S0422: 3, H0580: 2, H0486: 2, H0318: 2, L0748: 2, L0758: 2, H0445: 2, H0423: 2, H0422: 2, H0556: 1, S0420: 1, S0444: 1, S0360: 1, S0140: 1, H0619: 1, H0485: 1, L0586: 1, H0075: 1, H0635: 1, H0596: 1, H0050: 1, S0250: 1, H0428: 1, H0032: 1, H0598: 1, H0272: 1, H0412: 1, T0041: 1, H0561: 1, H0641: 1, L0638: 1, L0662: 1.		

847	HFI/AK06	608176	857	302 - 415	3454			1, L0794: 1, L0806: 1, L0659: 1, L0518: 1, L0789: 1, L0663: 1, H0701: 1, H0659: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, L0740: 1, L0749: 1, L0756: 1 and S0194: 1.		
848	HFI/CH70	608200	858	120 - 263	3455			S0192: 4, L0748: 2 and S0152: 1.		
849	HFI/HQ57	564793	859	322 - 465	3456			L0659: 2, L0809: 2, H0517: 1, L0369: 1, L0769: 1, L0803: 1 and S0192: 1.		
850	HFI/K29	843587	860	1611 - 1691	3457			H0615: 1, L0766: 1 and S0194: 1.		
								L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.	4	

851	HFIK29	852308	861	1611 - 1691	3458			L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.	4	
852	HFIK29	873681	862	1611 - 1691	3459			L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1.	4	

853	HFIK29	885007	863	1611 - 1691	3460					1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.			
854	HFIK27	600357	864	280 - 393	3461	Asp-32 to Lys-37.				L0809: 5, L0777: 4, L0731: 4, L0485: 4, S0408: 3, L0794: 3, L0803: 3, L0438: 3, L0779: 3, L0755: 3, L0758: 3, H0645: 2, H0581: 2, L0800: 2, L0766: 2, L0804: 2, L0659: 2, L0790: 2, L0663: 2, S0328: 2, H0696: 2, L0740: 2, T0002: 1, S0040: 1, H0713: 1, S0116: 1, H0661: 1, S0418: 1, S0420: 1, S0476: 1, H0619: 1, H0261: 1, S0222: 1, H0600: 1, H0427: 1, H0706: 1, L0105: 1, H0318: 1, H0545: 1, S0051: 1, H0188: 1, H0687: 1, H0628: 1, H0591: 1, H0641: 1, H0646: 1, S0422: 1, H0529: 1, L4557: 1, L0763: 1, L0764: 1, L0662: 1, L0649: 1, L0775: 1, L0805: 1, L0526: 1, L0783: 1, L0382: 1, L0789: 1, L0666: 1, S0148: 1, S0126: 1, H0648: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, L0744: 1, L0745: 1, L0749: 1, L0780: 1, L0759: 1, L0684: 1, S0194: 1, H0543: 1 and L0600: 1.	4	18q21	601941, 602080, 602397, 602397

855	HF11Q64	532040	865	268 - 327	3462			2, L0666: 2, L0750: 2, L0758: 2, L0759: 2, H0543: 2, H0170: 1, H0716: 1, H0341: 1, H0669: 1, S0360: 1, S0408: 1, H0455: 1, L0021: 1, H0085: 1, H0328: 1, H0428: 1, S0440: 1, L0761: 1, L0642: 1, L0662: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0526: 1, L0518: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, H0144: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, S0260: 1, H0445: 1, S0194: 1 and H0506: 1.		
856	HF11Z61	855939	866	2 - 274	3463	Val-38 to Trp-51.		AR216: 85, AR214: 66, AR205: 66, AR215: 61, AR171: 59, AR169: 58, AR245: 57, AR224: 57, AR223: 56, AR168: 56, AR221: 53, AR225: 53, AR217: 52, AR222: 51, AR212: 50, AR210: 49, AR311: 49, AR199: 49, AR170: 47, AR274: 45, AR313: 44, AR172: 44, AR213: 42, AR252: 40, AR299: 39, AR247: 39, AR312: 39, AR264: 38, AR161: 37, AR164: 37, AR189: 37, AR089: 37, AR246: 37, AR188: 36, AR218: 36, AR166: 36, AR162: 35, AR039: 35, AR263: 34, AR163: 34, AR195: 34, AR096: 34, AR308: 34, AR309: 33,	1p13	102770, 188340, 600234, 601414, 601691, 601691, 601691, 601691, 601718, 602094

						AR254: 33, AR053: 32, AR271: 31, AR165: 31, AR197: 30, AR316: 30, AR219: 29, AR242: 29, AR190: 28, AR291: 28, AR198: 28, AR191: 28, AR288: 28, AR173: 28, AR201: 27, AR175: 27, AR240: 27, AR250: 27, AR236: 26, AR290: 26, AR282: 26, AR295: 26, AR185: 25, AR253: 25, AR060: 25, AR181: 25, AR174: 25, AR211: 24, AR178: 24, AR193: 24, AR261: 24, AR283: 24, AR262: 24, AR296: 24, AR200: 24, AR272: 24, AR183: 23, AR179: 23, AR192: 23, AR266: 23, AR243: 23, AR207: 22, AR203: 22, AR293: 22, AR300: 21, AR196: 21, AR180: 21, AR255: 21, AR297: 20, AR177: 20, AR231: 20, AR277: 20, AR269: 20, AR104: 19, AR268: 19, AR256: 19, AR267: 19, AR275: 18, AR260: 18, AR257: 18, AR176: 17, AR285: 17, AR289: 17, AR204: 17, AR270: 17, AR237: 17, AR258: 17, AR286: 17, AR230: 16, AR182: 16, AR287: 15, AR061: 15, AR238: 15, AR229: 15, AR235: 15, AR232: 15, AR055: 14, AR226: 13, AR033: 13, AR239: 13,
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857	HFJJD81	787129	867	1274 - 1396	3464			1, L0804: 1, L0774: 1, L0775: 1, L0806: 1, L0659: 1, L0783: 1, L0529: 1, L0663: 1, L0664: 1, S0428: 1, H0684: 1, H0670: 1, H0648: 1, S0380: 1, S0027: 1, L0749: 1, L0756: 1, L0755: 1, L0758: 1, S0434: 1, L0587: 1, L0605: 1, S0194: 1, H0543: 1 and H0423: 1.		
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858	HFJUF44	842713	868	82 - 189	3465			H0392: 1, H0617: 1, S0052: 1, L0591: 1 and S0194: 1.		
859	HFJTA02	843763	869	306 - 404	3466			L0766: 2, L0777: 2, H0421: 1		

860	HFIUF80	608210	870	87 - 191	3467	Val-25 to Gly-34.	1, H0090: 1, L0639: 1, L0757: 1 and S0196: 1. H0623: 7, H0556: 3, H0663: 3, S0408: 3, H0551: 3, L0774: 3, L0740: 3, L0596: 3, S0212: 2, S0410: 2, S0474: 2, H0581: 2, S0250: 2, H0494: 2, H0529: 2, L0663: 2, L0748: 2, L0439: 2, L0759: 2, H0656: 1, H0459: 1, H0638: 1, S0358: 1, S0360: 1, H0580: 1, H0722: 1, H0619: 1, H0587: 1, H0574: 1, H0486: 1, T0039: 1, H0251: 1, H0046: 1, H0569: 1, H0266: 1, H0615: 1, H0090: 1, H0591: 1, T0042: 1, S0440: 1, S0210: 1, L0372: 1, L0642: 1, L0662: 1, L0766: 1, L0803: 1, L0659: 1, L0519: 1, L0666: 1, H0519: 1, S0126: 1, S0330: 1, S0152: 1, H0521: 1, H0436: 1, L0754: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, L0731: 1, L0758: 1, S0434: 1, H0136: 1, S0196: 1 and H0543: 1.			
861	HFIUK66	600358	871	51 - 275	3468	Gly-42 to Asp-49.	L0794: 4, H0521: 4, L0803: 3, H0436: 3, L0744: 3, H0486: 2, H0581: 2, L0776: 2, L0751: 2, L0754: 2, L0756: 2, H0716: 1, H0402: 1, H0637: 1, S0222: 1, H0635: 1, H0596: 1, H0457: 1, H0050: 1, H0615: 1, H0622: 1, H0032: 1, H0090: 1, H0038: 1, H0264: 1, H0647: 1, H0652: 1, S0422: 1, L0520: 1, L0766: 1, L0806: 1, L0659: 1, L0664: 1, L0665: 1, S0374: 1, T0068: 1, H0547: 1, L0779: 1, L0777: 1, L0731: 1, L0758: 1, L0759: 1, S0196: 1, H0542: 1 and			

862	HFIUT21	794323	872	404 - 478	3469		H0506: 1. AR089: 6, AR316: 4, AR060: 1 L0439: 2, L0754: 2, L0756: 2, L0779: 2, S0360: 1, H0427: 1, S0010: 1, S0422: 1, L0772: 1, L0643: 1, L0662: 1, L0794: 1, L0657: 1, L0664: 1, L0752: 1, L0755: 1, L0592: 1, L0595: 1 and S0196: 1.	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151, 600163, 601154
863	HFIVB04	847075	873	227 - 343	3470	Lys-23 to Gly-28.	S0192: 130, L0659: 16, L0666: 11, L0771: 9, S0360: 7, S0194: 5, H0392: 4, L0662: 4, S0196: 4, S0212: 3, L0665: 3, L0439: 3, S0444: 2, H0580: 2, H0497: 2, H0251: 2, H0375: 2, S0003: 2, H0252: 2, L0598: 2, L0638: 2, L0637: 2, L0649: 2, L0774: 2, L0806: 2, L0783: 2, L0664: 2, H0520: 2, H0690: 2, H0684: 2, H0436: 2, L0751: 2, L0777: 2, S0242: 2, H0422: 2, H0170: 1, S0420: 1, S0442: 1, S0358: 1, S0468: 1, H0333: 1, S0414: 1, H0014: 1, H0373: 1, H0067: 1, S0336: 1, H0687: 1, S0250: 1, H0428: 1, H0048: 1, H0169: 1, H0591: 1, H0634: 1, H0412: 1, H0413: 1, L0351: 1, S0438: 1, S0422: 1, L0803: 1, L0775: 1, L0375: 1, L0655: 1, L0809: 1, L0790: 1, L0438: 1, H0435: 1, H0521: 1, S0406: 1, L0742: 1, L0747: 1, L0756: 1, L0731: 1, L0758: 1, H0445: 1, S0436: 1, L0588: 1, L0599: 1, S0412: 1 and H0506: 1.		
864	HFIXC39	683053	874	774 - 953	3471		AR089: 2, AR316: 1 L0439: 7, L0777: 5, L0794: 3, L0483: 2, H0623: 2, L0803:	2q31-q37	100690, 113300, 120070, 120131, 120131, 120180,

865	HFIXC69	704080	875	98 - 295	3472	Asp-25 to Tyr-46, Thr-53 to Phe-65.	2, L0438: 2, S0392: 2, L0756: 2, S0360: 1, H0052: 1, L0351: 1, L0800: 1, L0774: 1, L0809: 1, L0749: 1, L0752: 1, L0755: 1 and S0242: 1.	120180, 120180, 120180, 120190, 120250, 138030, 142989, 156232, 178600, 259900, 266100, 600258, 600321, 600430
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866	HFIXE39	844408	876	69 - 164	3473		L0754: 6, L0438: 5, L0746: 4, L0662: 3, L0439: 3, L0756: 3, L0759: 3, S0360: 2, H0616: 2, L0794: 2, L0790: 2, L0666: 2, L0744: 2, L0745: 2, L0779: 2, L0731: 2, L0601: 2, H0677:	102772, 106210, 106210, 106210, 106210, 107271, 114550, 115500, 136530, 151390, 179615, 179615,

867	HFYPI5	688044	877	68 - 175	3474	Glu-26 to Glu-35.	2, H0657: 1, S0212: 1, S0356: 1, S0442: 1, S0358: 1, S0300: 1, S0222: 1, S0010: 1, L0163: 1, H0375: 1, S0003: 1, T0067: 1, H0380: 1, L0351: 1, S0422: 1, L0770: 1, L0772: 1, L0800: 1, L0771: 1, L0363: 1, L0655: 1, L0657: 1, L0656: 1, L0659: 1, L0367: 1, H0670: 1, S0330: 1, S0013: 1, L0747: 1, L0757: 1, S0436: 1 and S0242: 1.	179616, 180385, 194070, 194070, 194070, 245349
868	HFIZE10	607733	878	243 - 353	3475	Glu-23 to Phe-31.	L0748: 6, L0747: 2, L0750: 2, H0486: 1, H0004: 1, S0022: 1, H0547: 1, S0027: 1, L0777: 1 and S0242: 1.	
869	HFIZF51	532598	879	186 - 383	3476	Lys-24 to Gly-34, Lys-38 to Lys-66.	L0439: 3, L0779: 3, L0665: 2, L0759: 2, S0030: 1, H0661: 1, H0497: 1, L0021: 1, H0274: 1, L0105: 1, S0388: 1, S0051: 1, L0142: 1, L0143: 1, L0638: 1, L0521: 1, L0662: 1, L0767: 1, L0794: 1, L0803: 1, L0661: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, L0752: 1, L0731: 1, L0757: 1, S0031: 1, S0026: 1, S0242: 1 and S0412: 1.	107300, 131210, 136132, 145001, 173610, 601518, 601652
870	HFIZK42	857254	880	435 - 509	3477		AR089: 18, AR316: 14, AR060: 10 S0242: 1	
871	HFIZM89	608211	881	143 - 256	3478		AR089: 20, AR316: 13, AR060: 7 S0242: 1 and H0543: 1.	
872	HFKBA62	844485	882	120 - 227	3479	Asn-26 to Thr-33.	S0242: 1	
873	HFKBC47	847076	883	6 - 98	3480		H0009: 1, H0011: 1 and H0595: 1.	
							AR168: 14, AR214: 13, AR222: 13, AR217: 10, AR224: 8, AR216: 8, AR171: 5, AR225: 4,	7

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874	HFKDX53	731867	884	964 - 1299	3481	Leu-7 to Trp-13, Thr-34 to Gly-54, Gly-61 to Thr-67.	1, H0620: 1, H0373: 1, L0163: 1, S0051: 1, T0010: 1, H0687: 1, H0028: 1, H0039: 1, H0031: 1, S0036: 1, H0264: 1, H0413: 1, H0100: 1, L0564: 1, L0598: 1, L0763: 1, L0761: 1, L0648: 1, L0662: 1, L0794: 1, L0650: 1, L0375: 1, L0523: 1, L0805: 1, L0807: 1, L0647: 1, L0789: 1, L0666: 1, S0374: 1, L0438: 1, H0689: 1, H0659: 1, H0670: 1, H0518: 1, H0627: 1, S0037: 1, S0027: 1, L0743: 1, L0740: 1, L0749: 1, H0595: 1, S0434: 1, L0605: 1, L0485: 1, L0593: 1, S0192: 1 and S0196: 1.		
875	HFKEB14	709663	885	218 - 316	3482	Ser-15 to His-26.	AR089: 8, AR316: 7, AR060: 6 L0731: 10, L0439: 5, L0650: 4, L0776: 4, H0012: 3, H0038: 3, L0805: 3, H0547: 3, L0750: 3, L0758: 3, L0770: 2, L0809: 2, L0666: 2, H0144: 2, H0539: 2, L0756: 2, L0777: 2, T0049: 1 and L0593: 1.	15q11.2	103581, 146150, 203200, 203200, 227220, 601623, 601800, 601889, 602117

876	HFKEG63	731913	886	211 - 552	3483	Leu-65 to Trp-76, Pro-80 to Leu-92, Gly-96 to Gly-102, Arg-105 to Gly-110.		1, S0358: 1, H0369: 1, H0574: 1, H0486: 1, H0427: 1, H0563: 1, H0566: 1, H0050: 1, L0471: 1, H0687: 1, H0615: 1, H0428: 1, H0553: 1, H0628: 1, H0032: 1, H0169: 1, H0135: 1, L0351: 1, H0561: 1, L0764: 1, L0773: 1, L0768: 1, L0522: 1, L0803: 1, L0775: 1, L0806: 1, L0664: 1, H0593: 1, H0684: 1, H0648: 1, H0631: 1, S0037: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1 and S0026: 1.		
877	HFKE35	753268	887	414 - 932	3484	Cys-162 to Gly-171.		L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330:	2q32	100690, 142989, 156232, 178600, 278250, 600258



878	HFKEU17	829191	888	414 - 932	3485	Cys-162 to Gly-171.	1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1. L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1.	2q32	100690, 142989, 156232, 178600, 278250, 600258
879	HFKEU17	815554	889	229 - 333	3486		L0769: 12, L0755: 8, L0809: 7, L0439: 7, H0599: 4, H0012: 4, S0007: 3, H0424: 3, H0031: 3, L0752: 3, L0759: 3, H0428: 2, L0142: 2, H0063: 2, L0804: 2, L0775: 2, L0666: 2, L0750: 2, L0753: 2, L0758: 2, L0592: 2.	9q22.1-q22.2	162400, 229700, 602014, 602088

880	HFKEV77	850678	890	382 - 588	3487	Asn-59 to Lys-68.		2, L0581: 2, L0603: 2, H0295: 1, H0650: 1, H0483: 1, S6026: 1, H0391: 1, H0592: 1, H0069: 1, S0280: 1, L0021: 1, H0052: 1, H0620: 1, H0266: 1, H0553: 1, H0708: 1, S0438: 1, L0763: 1, L0770: 1, L0800: 1, L0773: 1, L0794: 1, L0803: 1, L0774: 1, L0776: 1, L0783: 1, L0788: 1, L0789: 1, L0665: 1, H0144: 1, H0690: 1, H0658: 1, S0380: 1, L0747: 1, L0731: 1 and H0423: 1.		107300, 131210, 136132, 145001, 173610, 601518, 601652
								AR089: 52, AR316: 44, AR060: 36 L0777: 12, H0038: 10, L0803: 9, S0358: 8, L0766: 8, L0779: 8, L0750: 7, L0758: 7, L0775: 6, L0776: 6, L0809: 6, L0591: 6, L0748: 5, S0408: 4, S0132: 4, H0318: 4, S0036: 4, L0439: 4, L0747: 4, L0731: 4, L0759: 4, H0580: 3, L0769: 3, L0774: 3, L0666: 3, L0438: 3, S0126: 3, L0756: 3, L0780: 3, L0755: 3, L0757: 3, H0543: 3, H0657: 2, H0638: 2, S0222: 2, H0486: 2, H0599: 2, H0036: 2, H0590: 2, S0010: 2, H0196: 2, H0046: 2, H0123: 2, H0012: 2, H0154: 2, L0163: 2, H0213: 2, S0150: 2, H0529: 2, L0804: 2, L0375: 2, L0655: 2, L0656: 2, L0659: 2, L0783: 2, S0374: 2, H0659: 2, H0672: 2, S0328: 2, S0152: 2, H0521: 2, S0406: 2, L0588: 2, L0605: 2, L0485: 2, L0362: 2, S0026: 2, H0352: 2, H0170: 1, H0171: 1, H0713: 1, S6024: 1, H0650: 1, H0656: 1,	1q24	

0950083 : 091201

881	HFKEFI15	775846	891	1033 - 1104	3488					S0116: 1, H0341: 1, S0282: 1, H0484: 1, H0669: 1, S0356: 1, S0442: 1, S0354: 1, S0360: 1, H0339: 1, H0619: 1, H0437: 1, H0549: 1, H0431: 1, H0587: 1, H0574: 1, L0623: 1, L0586: 1, L0021: 1, H0575: 1, H0581: 1, H0230: 1, H0052: 1, H0597: 1, H0546: 1, H0178: 1, H0081: 1, H0050: 1, L0471: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1, H0355: 1, S028: 1, H0266: 1, S0003: 1, S0214: 1, H0328: 1, H0033: 1, H0604: 1, H0032: 1, H0673: 1, H0598: 1, H0163: 1, H0090: 1, H0040: 1, H0616: 1, H0551: 1, H0056: 1, H0623: 1, H0100: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, S0440: 1, H0207: 1, H0641: 1, H0633: 1, S0344: 1, S0002: 1, S0426: 1, L0520: 1, L0770: 1, L0639: 1, L0372: 1, L0646: 1, L0800: 1, L0641: 1, L0773: 1, L0662: 1, L0767: 1, L0650: 1, L0653: 1, L0634: 1, L0526: 1, L0519: 1, L0787: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, H0725: 1, S0148: 1, H0547: 1, H0593: 1, H0684: 1, H0670: 1, H0522: 1, H0436: 1, H0540: 1, S014: 1, S0027: 1, S0028: 1, S0206: 1, L0741: 1, L0740: 1, L0751: 1, L0749: 1, L0752: 1, S0434: 1, L0608: 1, L0604: 1, S0011: 1, S0192: 1, S0194: 1, S0276: 1 and S0398: 1.	6p25	134570, 601090, 602028
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882	HFKF135	740752	892	211 - 408	3489	Gln-21 to Gly-27, Lys-35 to Tyr-42.	4, L0755: 4, H0013: 3, L0598: 3, H0144: 3, H0619: 2, H0012: 2, L0803: 2, L0791: 2, S0330: 2, H0478: 2, L0779: 2, S0196: 2, H0171: 1, S0040: 1, S6024: 1, H0295: 1, S0356: 1, L0717: 1, H0123: 1, H0050: 1, H0135: 1, H0412: 1, H0561: 1, L0637: 1, L0800: 1, L0648: 1, L0768: 1, L0650: 1, L0774: 1, L0806: 1, L0783: 1, L0809: 1, L0543: 1, L0789: 1, H0696: 1, S0014: 1, L0758: 1 and S0242: 1. AR060: 3, AR316: 2, AR089: 1 H0620: 3, L0546: 3 and H0012: 1.			
883	HFKFK49	847077	893	181 - 240	3490		AR089: 34, AR316: 26, AR060: 18 L0758: 8, L0766: 7, L0659: 7, H0255: 5, L0769: 4, L0748: 4, H0402: 3, L0776: 3, L0666: 3, L0754: 3, L0747: 3, H0556: 2, S0410: 2, S0132: 2, L0623: 2, L0586: 2, H0251: 2, S0366: 2, S0142: 2, L0770: 2, L0761: 2, L0764: 2, L0662: 2, L0561: 2, L0774: 2, L0805: 2, L0809: 2, L0665: 2, L0438: 2, S0330: 2, S0027: 2, L0743: 2, L0751: 2, L0604: 2, L0601: 2, H0140: 1, H0686: 1, H0657: 1, H0484: 1, S0418: 1, S0420: 1, L0005: 1, S0356: 1, H0549: 1, H0370: 1, H0318: 1, H0581: 1, H0052: 1, H0546: 1, H0011: 1, H0012: 1, S0362: 1, H0292: 1, H0617: 1, L0055: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0561: 1, L0667: 1, L0772: 1, L0646: 19p13.3			108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477

884	HFKFV88	732065	894	335 - 439	3491			1, L0643: 1, L0648: 1, L0768: 1, L0386: 1, L0381: 1, L0803: 1, L0655: 1, L0663: 1, L0664: 1, H0690: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, H0710: 1, H0521: 1, H0696: 1, H0555: 1, L0439: 1, L0740: 1, L0745: 1, L0777: 1, L0753: 1, L0755: 1, L0731: 1, L0594: 1, L0603: 1 and S0456: 1. L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.		
885	HFKFV88	844371	895	695 - 802	3492	Glu-18 to Ser-23.		L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.		
886	HFKFV88	852540	896	695 - 802	3493	Glu-18 to Ser-23.		L0438: 4, L0439: 3, L0779: 3, L0785: 2, L0471: 2, S0038: 2, L0521: 2, S0116: 1, S0360: 1, H0637: 1, S0222: 1, H0486: 1, H0013: 1, H0004: 1, H0052: 1, H0012: 1, H0038: 1, H0616: 1, L0803: 1, L0789: 1, S0053: 1, L0731: 1, L0758: 1, L0599: 1 and L0594: 1.		
887	HFKFX64	566835	897	127 - 171	3494			AR273: 15, AR244: 9, AR274: 9, AR192: 9, AR184: 8, AR186: 8, 18q11	114400, 257220, 257220	

888	HFOXD49	844524	898	56 - 154	3495	Ser-4 to Trp-9.	AR204: 8, AR052: 7, AR243: 7, AR202: 7, AR269: 7, AR055: 7, AR271: 6, AR185: 6, AR198: 6, AR206: 6, AR312: 6, AR246: 6, AR247: 6, AR241: 5, AR213: 5, AR275: 5, AR309: 5, AR039: 5, AR313: 5, AR253: 5, AR061: 5, AR104: 5, AR267: 5, AR182: 5, AR060: 5, AR282: 5, AR268: 4, AR053: 4, AR277: 4, AR205: 4, AR194: 4, AR299: 4, AR316: 4, AR283: 4, AR033: 3, AR183: 3, AR240: 3, AR300: 3, AR096: 3, AR270: 3, AR266: 3, AR310: 3, AR218: 3, AR291: 3, AR248: 3, AR249: 3, AR265: 3, AR219: 3, AR251: 3, AR295: 2, AR229: 2, AR237: 2, AR294: 2, AR293: 2, AR233: 2, AR238: 2, AR292: 2, AR175: 2, AR089: 2, AR226: 2, AR227: 2, AR296: 2, AR231: 2, AR234: 2, AR289: 2, AR298: 2, AR177: 2, AR286: 1, AR259: 1, AR256: 1, AR179: 1, AR263: 1 H0012: 3, H0013: 1 and L0809: 1.		
							L0750: 9, L0747: 8, L0748: 6, L0740: 5, L0774: 4, L0809:		

889	HFOX28	847385	899	331 - 474	3496	Ser-3 to Pro-13, Ala-38 to Gln-43.	<p>4, H0644: 3, L0769: 3, L0776: 3, L0755: 3, L0731: 3, L0757: 3, S0358: 2, S0474: 2, L0794: 2, L0803: 2, L0807: 2, L0777: 2, L0752: 2, L0601: 2, S0276: 2, H0624: 1, S0282: 1, H0097: 1, H0235: 1, H0545: 1, H0168: 1, L0770: 1, L0800: 1, L0773: 1, L0364: 1, L0775: 1, L0659: 1, L0783: 1, L0544: 1, L0791: 1, L0792: 1, L0666: 1, S0374: 1, S0044: 1, S0406: 1, L0744: 1, L0754: 1, L0759: 1 and L0599: 1.</p> <p>AR089: 13, AR316: 9, AR060: 4</p> <p>L0758: 26, H0616: 9, L0748: 9, S0410: 6, S0434: 6, L0534: 5, L0562: 4, H0271: 4, L0665: 4, S0052: 4, S0216: 4, L0439: 4, H0255: 3, S0442: 3, S0360: 3, H0370: 3, H0421: 3, H0179: 3, H0416: 3, L0646: 3, L0764: 3, L0662: 3, L0794: 3, L0803: 3, L0806: 3, L0663: 3, L0754: 3, L0749: 3, L0717: 2, H0550: 2, H0587: 2, H0620: 2, H0031: 2, L0667: 2, L0771: 2, L0648: 2, L0804: 2, L0775: 2, L0375: 2, L0653: 2, L0809: 2, L0666: 2, S0428: 2, S0053: 2, S0152: 2, L0759: 2, H0716: 1, S6024: 1, S0218: 1, H0656: 1, S0116: 1, S0282: 1, H0484: 1, H0663: 1, H0662: 1, H0458: 1, L0539: 1, S0356: 1, S0046: 1, H0619: 1, H0549: 1, S0222: 1, H0438: 1, H0333: 1, H0635: 1, T0082: 1, S0346: 1, H0318: 1, H0581: 1, H0052: 1, H0251: 1, H0309: 1.</p>		
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890	HFOYH74	610085	900	278 - 337	3497		S0276: 1						
891	HFOYP02	608178	901	13 - 108	3498	Pro-24 to Glu-31.	S0276: 1						
892	HFOYR24	866173	902	202 - 297	3499	Cys-26 to Lys-31.	S0276: 1						
893	HFOYR54	743196	903	8 - 127	3500		H0031: 7, L0766: 4, L0747: 4, S0406: 3, L0759: 3, H0650: 2, H0050: 2, L0598: 2, L0662: 2, L0774: 2, L0527: 2, L0809: 2, L0666: 2, L0665: 2, H0659: 2, L0756: 2, L0779: 2, L0780: 2, L0485: 2, H0624: 1, H0661: 1, S0358: 1, S0046: 1, H0586: 1, H0331: 1, H0574: 1, H0632: 1, H0485: 1, H0013: 1, H0427: 1, L0021: 1, L0738: 1, S0003: 1, H0039: 1, H0673: 1, S0366: 1, H0038: 1, H0616: 1, T0067: 1, H0494: 1, H0561: 1, H0529: 1, L4747: 1, L0776: 1, L0657: 1, L0659: 1, L0664: 1, L0438: 2	2					



894	HFOZB26	608177	904	199 - 231	3501			1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, H0436: 1, L0748: 1, L0758: 1, L0588: 1, L0589: 1, S0026: 1 and S0276: 1. S0114: 1, S0442: 1, H0729: 1, L0163: 1, H0271: 1, S0038: 1, S0028: 1, H0595: 1, S0436: 1 and S0276: 1.		
895	HFPBF54	703186	905	347 - 400	3502			AR060: 13, AR316: 10, AR089: 8 L0599: 4, L0439: 3, L0777: 3, L0754: 2, L0745: 2, S0418: 1, S0222: 1, H0492: 1, H0051: 1, H0615: 1, L0805: 1, L0776: 1, S0028: 1, L0747: 1, S0026: 1 and H0542: 1.		
896	HFPBF54	854776	906	347 - 400	3503			AR060: 13, AR316: 10, AR089: 8 L0599: 4, L0439: 3, L0777: 3, L0754: 2, L0745: 2, S0418: 1, S0222: 1, H0492: 1, H0051: 1, H0615: 1, L0805: 1, L0776: 1, S0028: 1, L0747: 1, S0026: 1 and H0542: 1.		
897	HFPBI93	853359	907	205 - 294	3504	Gly-19 to Gly-24.		AR060: 7, AR316: 6, AR089: 4 L0731: 4, L0439: 3, L0777: 3, S0222: 2, S6024: 1, H0441: 1, H0608: 1, H0052: 1, H0150: 1, H0644: 1, L0761: 1, L0789: 1, L0352: 1, S0406: 1, S3012: 1, L0779: 1 and L0758: 1.	10q25.1	167409
898	HFPBI64	610263	908	230 - 355	3505			AR060: 4, AR316: 3, AR089: 2 L0439: 9, L0438: 5, H0052: 4, S0222: 3, S0049: 2, S6026: 1, S0665: 1, S0346: 1, H0563: 1, H0566: 1, S0388: 1, S0036: 1.		

899	HFPBQ55	608171	909	317 - 364	3506				1, S0386: 1, L0769: 1, L0638: 1, S0028: 1 and L0366: 1. S0222: 2, L0662: 2, L0745: 2, S6024: 1, H0492: 1, H0052: 1, L0598: 1, L0637: 1, L0794: 1, L0659: 1, H0648: 1, L0759: 1, L0681: 1 and S0196: 1.		
900	HFPCK22	827286	910	56 - 163	3507	Pro-17 to Ala-27.			L0748: 23, L0499: 17, L0747: 13, L0509: 11, L0500: 10, L0662: 10, L0803: 10, L0659: 9, L0665: 9, H0520: 9, H0547: 9, L0740: 9, L0752: 8, H0090: 7, L0666: 7, L0439: 7, L0745: 7, L0749: 7, L0750: 7, L0508: 6, L0754: 6, L0756: 6, L0758: 6, H0657: 5, H0013: 5, S0010: 5, L0794: 5, L0766: 5, S0380: 5, H0542: 5, H0156: 4, H0318: 4, H0052: 4, H0529: 4, L0498: 4, L0375: 4, L0789: 4, L0565: 4, H0658: 4, S0378: 4, L0731: 4, L0759: 4, L0591: 4, H0265: 3, S0212: 3, S0360: 3, S0222: 3, H0486: 3, H0046: 3, L0471: 3, H0644: 3, H0641: 3, L0769: 3, L0638: 3, L0493: 3, L0809: 3, H0670: 3, L0779: 3, L0755: 3, L0599: 3, H0667: 3, H0556: 2, H0341: 2, S0358: 2, S0045: 2, T0039: 2, H0575: 2, H0327: 2, H0428: 2, H0553: 2, L0455: 2, H0551: 2, H0412: 2, H0059: 2, S0038: 2, L0564: 2, H0494: 2, L0761: 2, L0804: 2, L0653: 2, L0655: 2, L0661: 2, L0514: 2, L0663: 2, L0664: 2, H0144: 2, L0438: 2, H0519: 2, H0682: 2, H0660: 2, H0666: 2, H0521: 2, H0436: 2, L0751: 2, L0753: 2, L0596: 2, L0592: 2,		

901	HFPCM32	608215	911	194 - 274	3508				L0593: 2, H0506: 2, H0624: 1, H0395: 1, H0686: 1, H0685: 1, S0342: 1, H0484: 1, H0255: 1, H0663: 1, H0305: 1, H0638: 1, S0442: 1, S0354: 1, H0637: 1, H0580: 1, H0619: 1, H0393: 1, H0640: 1, H0411: 1, H0175: 1, H0431: 1, H0592: 1, H0587: 1, H0497: 1, H0643: 1, H0069: 1, H0599: 1, H0004: 1, S0346: 1, H0421: 1, S0049: 1, H0263: 1, H0596: 1, H0050: 1, H0350: 1, S6028: 1, H0266: 1, H0687: 1, H0284: 1, S0250: 1, H0622: 1, T0023: 1, H0031: 1, H0628: 1, H0212: 1, S0364: 1, H0189: 1, H0124: 1, S0036: 1, H0135: 1, H0038: 1, H0040: 1, H0063: 1, H0272: 1, H0488: 1, T0041: 1, T0042: 1, H0625: 1, H0561: 1, S0440: 1, S0150: 1, H0649: 1, S0142: 1, H0538: 1, L0598: 1, L0505: 1, L0503: 1, L0640: 1, L0763: 1, L0373: 1, L0646: 1, L0643: 1, L0648: 1, L0388: 1, L0774: 1, L0651: 1, L0629: 1, L0657: 1, L0658: 1, L0512: 1, L0513: 1, L0634: 1, L0519: 1, L0647: 1, L0788: 1, L0790: 1, L0793: 1, H0435: 1, H0648: 1, H0651: 1, H0522: 1, H0704: 1, S0404: 1, H0345: 1, S0037: 1, S3014: 1, L0780: 1, L0757: 1, H0445: 1, L0480: 1, L0604: 1, S0106: 1, S0192: 1, H0543: 1, H0423: 1, H0422: 1, S0412: 1 and H0677: 1.		
902	HFPCM36	608237	912	57 - 158	3509				S0222: 1 L0439: 7, L0740: 5, L0758: 5, L0777: 4, L0764: 3, L0794: 1	18q22 174810, 601567, 602080	

903	HFPD84	542057	913	101 - 112	3510			3, L0766: 3, L0805: 3, L0665: 3, L0438: 3, S0354: 2, S0222: 2, H0632: 2, H0581: 2, L0809: 2, L0789: 2, L0565: 2, L0754: 2, L0749: 2, H0170: 1, H0171: 1, S0420: 1, H0411: 1, L0394: 1, H0574: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0046: 1, H0375: 1, S0003: 1, L0483: 1, H0316: 1, H0591: 1, H0038: 1, L0763: 1, L0501: 1, L0638: 1, L0646: 1, L0773: 1, L0803: 1, L0774: 1, L0806: 1, L0776: 1, L0515: 1, L0659: 1, L0518: 1, L0666: 1, H0547: 1, H0365: 1, H0682: 1, H0660: 1, S0328: 1, S0330: 1, H0521: 1, S0404: 1, H0555: 1, L0756: 1, L0779: 1, L0759: 1 and L0594: 1.	
904	HFPD47	741049	914	12 - 107	3511			AR060: 6, AR316: 4, AR089: 3 S0222: 1	
905	HFPD66	825718	915	292 - 408	3512			S0222: 1	
906	HFPD65	839208	916	277 - 378	3513			AR089: 46, AR316: 31, AR060: 18 L0748: 2, S0222: 1, S0010: 1, L0540: 1, L0759: 1 and H0595: 1.	
907	HFPD42	844402	917	88 - 330	3514			H0658: 2, S0376: 1, S0222: 1, S0003: 1, T0023: 1, L0748: 1 and L0754: 1.	2
908	HFPD88	561939	918	238 - 345	3515			AR060: 3, AR316: 2, AR089: 1 L0439: 11, S0007: 2, L0770: 2, L0769: 2, L0794: 2, L0438: 2, S0222: 1, S0010: 1, S6028: 1, S0038: 1, L0789: 1, S3014: 1, L0756: 1 and L0777: 1.	
								S0222: 1 and S0031: 1.	

909	HFPDO25	636185	919	401 - 466	3516		AR060: 6, AR316: 5, AR089: 3 L0771: 2, S0222: 1, H0575: 1, L0564: 1, L0790: 1 and L0777: 1.				
910	HFPDP70	745433	920	168 - 284	3517		AR089: 13, AR316: 10, AR060: 7 S0222: 1				
911	HFPDR39	834441	921	1455 - 1706	3518	Ser-34 to Arg-45.	AR089: 19, AR316: 14, AR060: 10 L0751: 10, L0748: 9, S0222: 6, L0438: 4, L0747: 4, S0356: 3, H0040: 3, S0344: 3, L0766: 3, L0809: 3, L0665: 3, S0380: 3, L0758: 3, H0624: 2, S0360: 2, S0010: 2, H0014: 2, H0399: 2, H0622: 2, S0038: 2, S0144: 2, S0002: 2, L0770: 2, L0803: 2, H0666: 2, L0439: 2, L0749: 2, L0596: 2, L0595: 2, S0218: 1, S0400: 1, H0483: 1, S0408: 1, S0045: 1, H0619: 1, H0393: 1, S0278: 1, H0250: 1, H0618: 1, H0253: 1, H0052: 1, H0457: 1, H0123: 1, H0242: 1, H0266: 1, H0687: 1, H0264: 1, H0102: 1, S0440: 1, H0641: 1, H0646: 1, L0763: 1, L0371: 1, L0794: 1, L0804: 1, L0776: 1, L0807: 1, L0788: 1, L0793: 1, L0664: 1, S0052: 1, H0144: 1, H0547: 1, H0689: 1, H0659: 1, H0648: 1, H0696: 1, H0134: 1, L0779: 1, S0434: 1 and L0605: 1.			2	
912	HFPDX08	746379	922	64 - 360	3519	Met-1 to Arg-7, Ala-70 to Ser-77.	AR089: 67, AR316: 47, AR060: 29 H0023: 3, H0341: 2, S0046: 2, H0550: 2, H0559: 2, H0581: 2, L0766: 2, S0152: 2, S3014: 2, H0543: 2, H0556: 1, H0224:				

913	HFPEP69	835459	923	150 - 260	3520			1, H0225: 1, S0040: 1, H0295: 1, H0657: 1, S0418: 1, S0420: 1, S0376: 1, S0045: 1, S0222: 1, H0486: 1, H0013: 1, H0318: 1, H0052: 1, H0544: 1, H0620: 1, H0083: 1, H0266: 1, H0179: 1, H0628: 1, T0042: 1, H0509: 1, H0646: 1, S0344: 1, L0667: 1, S0053: 1, L0438: 1, H0658: 1, H0576: 1 and S0027: 1. AR060: 133, AR316: 94, AR089: 54 S0222: 1		
914	HFR4U40	701986	924	218 - 262	3521			AR089: 11, AR316: 10, AR060: 8 L0766: 7, L0803: 6, L0740: 6, L0745: 6, L0749: 6, H0052: 5, L0754: 5, L0770: 4, H0553: 3, L0790: 3, L0666: 3, L0748: 3, L0589: 3, H0543: 3, S0134: 2, S0444: 2, S0476: 2, H0393: 2, H0013: 2, H0599: 2, S0003: 2, H0674: 2, H0135: 2, L0794: 2, L0659: 2, L0789: 2, L0792: 2, H0144: 2, H0684: 2, H0539: 2, H0521: 2, S0028: 2, L0750: 2, L0779: 2, L0777: 2, L0752: 2, L0758: 2, H0542: 2, H0556: 1, H0716: 1, S0114: 1, H0650: 1, H0661: 1, S0442: 1, H0675: 1, S0045: 1, H0586: 1, T0114: 1, H0706: 1, H0318: 1, H0581: 1, H0123: 1, L0471: 1, H0620: 1, S0050: 1, H0014: 1, H0015: 1, S0051: 1, H0355: 1, H0416: 1, H0286: 1, H0328: 1, H0622: 1, T0006: 1, H0030: 1, H0031: 1, H0644: 1, L0055: 1, H0032: 1, H0124: 1, H0163: 1, H0038: 1, H0040: 1, H0616: 1, H0551: 1.		

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915	HERAY90	846839	925	12 - 86	3522			1, H0264: 1, H0102: 1, S0112: 1, L0564: 1, H0280: 1, H0494: 1, S0002: 1, L0769: 1, L0642: 1, L0764: 1, L0662: 1, L0363: 1, L0775: 1, L0375: 1, L0651: 1, L0784: 1, L0806: 1, L0653: 1, L0655: 1, L0540: 1, S0374: 1, H0723: 1, H0547: 1, H0648: 1, H0672: 1, S0328: 1, H0522: 1, S0406: 1, H0436: 1, S0392: 1, L0731: 1, L0759: 1, S0031: 1, S0436: 1, L0588: 1, H0653: 1, S0192: 1 and H0352: 1.		
								AR052: 53, AR309: 45, AR053: 36, AR310: 33, AR312: 30, AR213: 30, AR313: 27, AR265: 25, AR096: 15, AR271: 15, AR253: 14, AR248: 13, AR186: 13, AR033: 12, AR274: 12, AR055: 12, AR299: 11, AR270: 11, AR275: 11, AR263: 11, AR089: 11, AR290: 10, AR316: 10, AR300: 9, AR249: 9, AR296: 9, AR273: 8, AR269: 8, AR185: 8, AR104: 8, AR060: 8, AR268: 8, AR251: 8, AR247: 8, AR182: 7, AR298: 7, AR061: 7, AR192: 7, AR282: 7, AR286: 7, AR198: 7, AR240: 7, AR246: 6, AR177: 6, AR184: 6, AR204: 6, AR292: 6, AR280: 6, AR283: 5, AR267: 5, AR291: 5, AR295: 5, AR229: 5, AR284: 5.		

916	HFSAY91	828067	926	132 - 281	3523			AR218: 5, AR285: 5, AR289: 5, AR219: 5, AR293: 5, AR266: 5, AR314: 4, AR175: 4, AR039: 4, AR202: 4, AR277: 4, AR205: 4, AR194: 4, AR206: 4, AR238: 4, AR294: 4, AR231: 4, AR233: 3, AR183: 3, AR256: 3, AR234: 3, AR179: 3, AR226: 3, AR281: 3, AR232: 3, AR237: 3, AR243: 3, AR258: 3, AR259: 2, AR227: 2, AR241: 2, AR315: 2, AR244: 2 L0439: 10, L0438: 4, H0251: 2, L0742: 2, S0046: 1, T0039: 1, H0427: 1, H0235: 1, H0178: 1, S0050: 1, T0010: 1, L0769: 1, L0805: 1, L0635: 1, H0520: 1, S0152: 1, S0190: 1, S0028: 1, L0747: 1, L0786: 1, L0779: 1, L0755: 1, L0758: 1 and S0242: 1. L0755: 3, S0420: 2, S0214: 2, H0547: 2, L0748: 2, L0731: 2, L0759: 2, H0657: 1, S0356: 1, H0057: 1, S0388: 1, L0794: 1, L0766: 1, L0805: 1, L0776: 1, H0519: 1, H0659: 1, H0651: 1, L0439: 1, L0779: 1, L0777: 1, L0780: 1, L0596: 1, L0599: 1 and S0026: 1.	21q22.1	147450, 176261, 253270, 601399
917	HFSBC10	638315	927	100 - 246	3524			AR221: 33, AR224: 19, AR225: 12, AR170: 9, AR176: 9, AR257: 9, AR165: 9, AR228: 9, AR223: 9, AR287: 9,		



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918	HFSBE94	600398	928	130 - 255	3525	Pro-36 to Arg-41.		AR253: 3, AR238: 3, AR309: 3, AR229: 3, AR243: 3, AR258: 3, AR271: 3, AR213: 3, AR053: 3, AR096: 3, AR207: 3, AR033: 3, AR312: 3, AR299: 3, AR232: 3, AR210: 3, AR211: 3, AR195: 3, AR212: 2, AR219: 2, AR313: 2, AR275: 2, AR061: 2, AR294: 2, AR198: 2, AR246: 2, AR104: 2, AR192: 2, AR039: 2, AR199: 2, AR205: 2, AR265: 2, AR277: 2, AR263: 1, AR256: 1, AR218: 1, AR274: 1, AR226: 1, AR186: 1 H0170: 1 and H0057: 1.		
919	HFTANI1	638316	929	212 - 310	3526			H0057: 1 AR089: 54, AR316: 41, AR060: 29 S0212: 7, S0027: 5, S0278: 4, H0124: 4, L0766: 4, S0126: 4, H0521: 4, L0757: 4, H0657: 3, H0599: 3, S0144: 3, S0344: 3, H0539: 3, S0152: 3, S0028: 3, H0341: 2, H0305: 2, H0449: 2, T0040: 2, H0635: 2, H0123: 2, H0012: 2, H0271: 2, H0644: 2, H0628: 2, H0551: 2, H0494: 2, S0142: 2, H0547: 2, S3014: 2, L0754: 2, L0604: 2, S0040: 1, H0294: 1, T0049: 1, H0656: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0358: 1, S0360: 1, S0408: 1, S0045: 1, S0046: 1, H0550: 1, S0220: 1, H0370: 1,		

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920	HFTAR27	566890	930	284 - 394	3527			H0586: 1, H0333: 1, H0486: 1, H0069: 1, H0575: 1, H0706: 1, H0036: 1, H0253: 1, H0581: 1, H0052: 1, H0309: 1, H0327: 1, H0544: 1, H0081: 1, H0620: 1, H0023: 1, H0024: 1, H0014: 1, H0051: 1, T0010: 1, H0510: 1, H0266: 1, H0179: 1, S0022: 1, H0031: 1, H0553: 1, H0111: 1, H0616: 1, H0623: 1, T0041: 1, T0042: 1, H0429: 1, S0002: 1, L0769: 1, L0800: 1, L0794: 1, L0382: 1, L0789: 1, L0664: 1, L0565: 1, S0044: 1, S0037: 1, L0750: 1, L0779: 1, L0752: 1, L0758: 1, L0759: 1, L0601: 1, H0653: 1, H0665: 1, H0543: 1, S0424: 1 and H0506: 1. L0758: 12, L0662: 11, H0251: 9, L0731: 9, S0360: 5, H0013: 5, L0659: 5, L0747: 5, H0252: 4, H0328: 4, L0666: 4, L0439: 4, S0436: 4, H0135: 3, L0764: 3, L0783: 3, L0749: 3, S0358: 2, L0776: 2, L0793: 2, L0663: 2, H0651: 2, L0744: 2, L0754: 2, H0713: 1, H0716: 1, H0675: 1, H0329: 1, H0619: 1, L0717: 1, H0369: 1, H0550: 1, H0333: 1, H0632: 1, H0486: 1, T0060: 1, H0042: 1, H0575: 1, H0618: 1, H0150: 1, H0123: 1, H0050: 1, H0105: 1, T0003: 1, H0024: 1, H0510: 1, H0594: 1, H0028: 1, H0644: 1, S0364: 1, S0366: 1, H0591: 1, H0100: 1, L0763: 1, L0631: 1, L0637: 1, L0646: 1, L0641: 1, L0644: 1, L0649: 1, L0803: 1, L0775: 1, L0782: 1, L0809: 1, L0519: 1,		
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921	HFTAR30	801906	931	242 - 412	3528	Ser-12 to Cys-40.	L0665: 1, H0144: 1, H0726: 1, L0438: 1, H0684: 1, H0672: 1, S0380: 1, L0748: 1, L0759: 1, S0434: 1, L0596: 1, L0366: 1, L0600: 1 and H0352: 1. AR060: 26, AR316: 24, AR089: 22 H0594: 7, S0344: 5, H0595: 4, H0373: 3, H0543: 3, S0260: 2, H0542: 2, S0412: 2, H0171: 1, S0282: 1, H0645: 1, S0222: 1, S0280: 1, H0123: 1, H0024: 1, S0388: 1, H0090: 1, S0352: 1, H0436: 1, L0747: 1, L0756: 1, L0759: 1, S0192: 1, S0194: 1, S0276: 1 and H0352: 1.	14q24-q32	107970, 115650, 123270, 182600, 245200, 251600, 270100, 276900, 602091
922	HFTAS49	847386	932	249 - 320	3529		L0750: 5, L0777: 5, L0731: 5, L0769: 4, L0761: 4, L0770: 3, L0751: 3, L0754: 3, L0779: 3, L0794: 2, L0766: 2, L0803: 2, L0776: 2, L0747: 2, L0752: 2, L0759: 2, H0657: 1, S0282: 1, S0376: 1, S0046: 1, H0392: 1, H0497: 1, H0635: 1, H0575: 1, S0049: 1, H0123: 1, L0471: 1, H0024: 1, L0051: 1, H0412: 1, H0560: 1, L0763: 1, L0772: 1, L0374: 1, L0375: 1, L0806: 1, L0805: 1, S0126: 1, H0522: 1, S0044: 1, L0745: 1, L0756: 1, L0755: 1 and L0604: 1.	6p21.2	150270, 248611, 601690
923	HFTBB50	610015	933	94 - 504	3530	Asn-40 to Ala-55, Pro-73 to Arg-89, Arg-110 to Gly-116.	AR251: 25, AR309: 24, AR053: 23, AR310: 21, AR052: 21, AR313: 19, AR312: 18, AR273: 18, AR274: 17, AR265: 15, AR266: 15, AR213: 15, AR263: 14, AR270: 12, AR285: 11, AR268: 11, AR247: 11, AR289: 11,		

							AR290: 11, AR096: 11, AR299: 11, AR271: 11, AR253: 10, AR243: 10, AR186: 10, AR185: 9, AR283: 9, AR296: 9, AR286: 9, AR248: 9, AR275: 9, AR267: 9, AR055: 9, AR184: 9, AR292: 9, AR182: 9, AR291: 8, AR033: 8, AR269: 8, AR282: 8, AR284: 8, AR240: 8, AR061: 7, AR293: 7, AR183: 7, AR244: 7, AR280: 7, AR316: 7, AR249: 7, AR089: 7, AR298: 7, AR314: 7, AR175: 7, AR060: 7, AR192: 7, AR104: 6, AR315: 6, AR198: 6, AR300: 6, AR294: 6, AR246: 6, AR241: 6, AR295: 6, AR177: 5, AR256: 5, AR218: 5, AR277: 5, AR206: 5, AR238: 5, AR219: 4, AR231: 4, AR258: 4, AR205: 4, AR204: 4, AR259: 3, AR229: 3, AR179: 3, AR039: 3, AR232: 3, AR226: 3, AR237: 3, AR234: 3, AR202: 3, AR233: 3, AR281: 2, AR227: 2, AR194: 1 H0550: 2, H0251: 2, H0252: 2, H0617: 2, H0087: 2, H0583: 1, H0587: 1, H0618: 1, H0009: 1, H0123: 1, H0135: 1, H0593: 1 and S0031: 1.						
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924	HFTBL17	844488	934	49 - 150	3531		H0255: 1, H0411: 1, S0280: 1, H0123: 1, S0051: 1, L0375: 1, H0539: 1, S0146: 1, L0748: 1 and L0597: 1.		
925	HFTBL17	863152	935	49 - 150	3532		H0255: 1, H0411: 1, S0280: 1, H0123: 1, S0051: 1, L0375: 1, H0539: 1, S0146: 1, L0748: 1 and L0597: 1.		
926	HFTCF02	603447	936	363 - 425	3533		L0741: 3, L0777: 3, L0439: 2, L0750: 2, L0594: 2, S0360: 1, H0261: 1, L0021: 1, H0123: 1, S6028: 1, L0768: 1, L0438: 1, L0757: 1 and S0276: 1.	15	
927	HFTCI85	664487	937	250 - 276	3534		H0123: 1		
928	HFTCI32	604911	938	206 - 313	3535		H0123: 1		
929	HFTCO17	844354	939	1672 - 1713	3536		AR060: 6, AR316: 6, AR089: 6 L0439: 9, L0794: 4, L0438: 3, L0740: 3, S6028: 2, L0770: 2, L0805: 2, L0809: 2, L0777: 2, L0753: 2, L0731: 2, H0170: 1, L0415: 1, L0005: 1, S0376: 1, H0486: 1, H0194: 1, L0157: 1, H0123: 1, H0551: 1, L0598: 1, L0662: 1, L0768: 1, L0766: 1, L0803: 1, L0663: 1, H0519: 1, H0684: 1, H0522: 1, L0779: 1, L0780: 1, L0758: 1 and S0260: 1.		
930	HFTCW07	604987	940	36 - 134	3537		L0623: 1 and H0123: 1.		
931	HFTDF32	600360	941	344 - 388	3538		H0024: 2, H0543: 2, H0208: 1, T0082: 1, H0123: 1, H0560: 1, H0509: 1, H0521: 1 and H0423: 1.		
932	HFTDF79	827459	942	617 - 712	3539		AR184: 6, AR194: 5, AR265: 5, AR263: 4, AR313: 4, AR273: 4, AR192: 3, AR186: 3, AR268: 3, AR060: 3,		

933	HFTDK11	837382	943	139 - 699	3540	Glu-9 to Lys-16, Leu-44 to Leu-51, Gly-65 to Glu-84, Arg-131 to Tyr-137, Thr-147 to Ala-160, Ser-180 to Phe-185.	AR055: 3, AR251: 3, AR206: 3, AR202: 3, AR061: 3, AR204: 3, AR052: 3, AR243: 3, AR309: 3, AR182: 3, AR282: 3, AR270: 3, AR299: 2, AR312: 2, AR185: 2, AR053: 2, AR089: 2, AR277: 2, AR284: 2, AR275: 2, AR247: 2, AR213: 2, AR291: 2, AR316: 2, AR267: 2, AR253: 2, AR033: 2, AR238: 2, AR249: 2, AR310: 2, AR283: 2, AR271: 2, AR294: 2, AR096: 2, AR266: 2, AR237: 2, AR300: 2, AR240: 2, AR298: 2, AR205: 2, AR039: 2, AR269: 2, AR183: 1, AR233: 1, AR296: 1, AR295: 1, AR286: 1, AR226: 1, AR292: 1, AR175: 1 S0426: 2, H0123: 1 and S0152: 1.		
							H0123: 3, L0439: 3, L0759: 3, H0620: 2, H0024: 2, H0063: 2, H0519: 2, H0539: 2, H0696: 2, L0754: 2, L0683: 2, S0114: 1, H0583: 1, H0305: 1, S0418: 1, S0420: 1, L0005: 1, S0360: 1, H0208: 1, S0045: 1, S0046: 1, L0717: 1, H0431: 1, H0587: 1, H0486: 1, H0318: 1, H0581: 1, H0050: 1, L0471: 1, H0012: 1, S0388: 1, T0010: 1, H0083: 1, H0594: 1, H0028: 1, S0003: 1, H0615: 1, H0634: 1, T0042:		

934	HFTDU08	825715	944	216 - 293	3541			1, H0561: 1, L0638: 1, L0794: 1, L0766: 1, L0659: 1, L0783: 1, L0664: 1, H0701: 1, L0438: 1, H0520: 1, H0547: 1, S0126: 1, H0521: 1, L0742: 1, L0748: 1, L0745: 1, L0747: 1, L0750: 1, L0755: 1, L0366: 1 and H0506: 1.		
935	HFVGK67	569778	945	375 - 440	3542			AR089: 13, AR316: 9, AR060: 7		
936	HFVHD38	826709	946	2083 - 2163	3543			H0123: 2, H0255: 1, L0766: 1, S0126: 1, L0740: 1, L0745: 1 and L0779: 1.		
								H0393: 2 and S0116: 1.	8q22	216550, 259730
								AR061: 6, AR206: 6, AR186: 5, AR204: 4, AR215: 4, AR217: 4, AR310: 4, AR202: 4, AR273: 4, AR263: 3, AR282: 3, AR221: 3, AR238: 3, AR052: 3, AR275: 3, AR163: 3, AR161: 3, AR246: 3, AR269: 3, AR243: 3, AR265: 3, AR171: 3, AR162: 3, AR226: 3, AR228: 3, AR229: 3, AR234: 3, AR205: 3, AR096: 2, AR182: 2, AR222: 2, AR170: 2, AR274: 2, AR266: 2, AR055: 2, AR284: 2, AR248: 2, AR313: 2, AR299: 2, AR253: 2, AR181: 2, AR298: 2, AR291: 2, AR165: 2, AR172: 2, AR233: 2, AR164: 2, AR224: 2, AR237: 2, AR267: 2, AR311: 2, AR216: 2,		



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937	HFVHY57	668240	947	1198 - 1218	3544			H0251: 2, H0123: 2, H0050: 2, H0373: 2, S0250: 2, H0553: 2, H0038: 2, L0770: 2, L0794: 2, L0651: 2, L0517: 2, L0665: 2, L0438: 2, S0146: 2, L0757: 2, L0581: 2, S0026: 2, H0171: 1, H0662: 1, H0449: 1, S0420: 1, S0444: 1, H0619: 1, H0645: 1, H0411: 1, H0550: 1, H0357: 1, H0486: 1, H0036: 1, H0046: 1, L0471: 1, H0375: 1, H0687: 1, H0615: 1, H0644: 1, H0674: 1, H0163: 1, H0090: 1, H0591: 1, H0087: 1, T0069: 1, S0438: 1, S0440: 1, H0509: 1, L0763: 1, L0764: 1, L0767: 1, L0768: 1, L0381: 1, L0650: 1, L0375: 1, L0784: 1, L0805: 1, L0776: 1, L0659: 1, L0384: 1, L5622: 1, L0789: 1, H0519: 1, S0126: 1, H0435: 1, H0659: 1, H0648: 1, S0328: 1, H0539: 1, H0521: 1, S0013: 1, S0044: 1, H0626: 1, L0744: 1, L0745: 1, L0779: 1, L0753: 1, L0758: 1, L0589: 1, L0590: 1 and H0506: 1.	S0010: 8, L0747: 8, L0731: 8, H0052: 7, S0358: 6, L0748: 6, H0009: 5, S0002: 5, L0769: 5, L0665: 5, L0754: 5, L0752: 5, S0132: 4, H0575: 4, L0662: 4, H0521: 4, L0751: 4, L0745: 4, L0746: 4, L0757: 4, L0759: 4, L0595: 4, H0265: 3, S0046: 3, H0587: 3, T0010: 3, S0036: 3, H0040: 3, H0413: 3, S0038: 3, L0764: 3, L0774: 3, L0378: 3, L0659: 3, H0648: 3, L0741: 3, L0742: 3, L0744: 3, L0439: 3, L0740: 3, L0749: 3, L0758:	12q13	107777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
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938	HFVIC33	799524	948	462 - 743	3545	Lys-86 to Gly-93.	1, L0756: 1, L0777: 1, L0780: 1, S0031: 1, H0445: 1, L0589: 1, L0590: 1, L0592: 1, L0366: 1, H0667: 1, S0276: 1, S0424: 1 and H0506: 1. AR089: 9, AR316: 9, AR060: 9 L0754: 10, L0766: 8, L0803: 8, L0777: 8, L0362: 5, L0758: 4, L0599: 4, S0278: 3, S0002: 3, L0794: 3, S0126: 3, L0740: 3, L0752: 3, H0661: 2, S0358: 2, H0208: 2, H0393: 2, H0486: 2, H0013: 2, S0010: 2, H0581: 2, S0003: 2, T0067: 2, L0564: 2, H0494: 2, S0208: 2, S0422: 2, L0663: 2, L0747: 2, L0755: 2, L0731: 2, H0542: 2, H0170: 1, H0171: 1, H0395: 1, H0556: 1, T0002: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0376: 1, S0360: 1, T0008: 1, H0637: 1, T0109: 1, H0156: 1, H0098: 1, H0590: 1, H0046: 1, H0050: 1, L0471: 1, H0024: 1, H0428: 1, T0006: 1, L0055: 1, H0124: 1, H0708: 1, H0090: 1, H0591: 1, H0616: 1, H0063: 1, H0625: 1, S0438: 1, L0520: 1, L0763: 1, L0637: 1, L0646: 1, L0764: 1, L0771: 1, L0662: 1, L0804: 1, L0775: 1, L0784: 1, L0790: 1, H0547: 1, H0519: 1, S0378: 1, S0152: 1, L0612: 1, S0027: 1, S0028: 1, L0748: 1, L0745: 1, L0750: 1, L0780: 1, L0759: 1, S0031: 1, L0592: 1, S0194: 1 and H0422: 1.	6q22.1-q24.1	120110, 121014, 156225, 164200, 164200, 600320, 601410, 601757
939	HFXAK32	638319	949	46 - 84	3546		I 0439: 12 S0192: 6 H0591: 1		

940	HFXAK59	831141	950	962 - 1003	3547			4, L0731: 3, S0210: 2, H0144: 2, L0755: 2, H0624: 1, S0342: 1, S0001: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, H0156: 1, S0346: 1, H0545: 1, N0006: 1, S0051: 1, H0594: 1, H0266: 1, H0623: 1, L0770: 1, L0771: 1, L0803: 1, L0783: 1, L0666: 1, L0664: 1, L0438: 1, L0748: 1, L0747: 1, L0750: 1, L0780: 1, L0757: 1, L0605: 1, L0592: 1 and L0366: 1.		
								AR060: 7, AR316: 6, AR089: 5 L0747: 6, L0766: 4, L0749: 4, L0362: 4, H0046: 3, L0666: 3, S0126: 3, S0132: 2, H0013: 2, L0777: 2, L0758: 2, L0596: 2, H0624: 1, H0341: 1, S0001: 1, S0360: 1, S0408: 1, S0278: 1, H0370: 1, T0114: 1, H0083: 1, H0553: 1, H0606: 1, H0090: 1, H0038: 1, H0616: 1, H0269: 1, H0059: 1, H0561: 1, H0641: 1, S0142: 1, L0520: 1, L0641: 1, L0764: 1, L0805: 1, L0526: 1, L0664: 1, H0702: 1, H0659: 1, H0658: 1, H0660: 1, H0666: 1, S0330: 1, H0539: 1, H0696: 1, S0406: 1, S3014: 1, S0027: 1, L0755: 1, L0731: 1, L0759: 1, L0589: 1, H0136: 1, H0422: 1 and S0452: 1.	2	
941	HFXBI64	567419	951	146 - 265	3548			S0001: 1		
942	HFXBL05	740753	952	203 - 391	3549			L0438: 3, S0001: 1, H0013: 1, S0010: 1, L0439: 1, L0731: 1 and L0758: 1.		
943	HFXBM52	737672	953	232 - 324	3550			S0001: 1 and S0038: 1.		
944	HFXBR58	655949	954	263 - 337	3551			S0001: 1		

945	HFXBV67	748230	955	52 - 189	3552			AR060: 1 S0001: 1 and S0360: 1.		
946	HFXBY20	603523	956	89 - 496	3553	Gln-49 to Gly-54, Pro-56 to His-63, Phe-89 to Asp-95, Ser-119 to Arg-125.		AR060: 4, AR316: 3, AR089: 2 S0001: 1		
947	HFXCB70	603524	957	179 - 238	3554	Ser-14 to Lys-19.		S0001: 1 and L0502: 1.		
948	HFXCI42	606806	958	275 - 355	3555	Ser-12 to Arg-26.		AR060: 7, AR316: 6, AR089: 5 S0001: 1		
949	HFXCL59	825713	959	278 - 322	3556			AR060: 6, AR316: 5, AR089: 4 S0001: 2, S0022: 2, L0803: 2, L0471: 1, H0551: 1, H0625: 1 and L0777: 1.		
950	HFXCM22	589953	960	49 - 63	3557			H0009: 2, S0001: 1 and H0415: 1.		
951	HFXCN18	581057	961	48 - 74	3558			S0001: 1		
952	HFXCS53	828903	962	237 - 347	3559			L0766: 12, H0659: 5, L0749: 5, S0410: 4, S0422: 4, H0650: 3, H0341: 3, H0032: 3, H0529: 3, L0646: 3, H0520: 3, H0547: 3, H0521: 3, L0748: 3, H0423: 3, H0657: 2, S0280: 2, H0266: 2, H0090: 2, H0040: 2, L0803: 2, L0804: 2, L0666: 2, H0658: 2, H0672: 2, L0756: 2, L0757: 2, L0759: 2, S0424: 2, H0170: 1, H0556: 1, H0656: 1, S0001: 1, H0662: 1, S0418: 1, S0420: 1, S0444: 1, H0728: 1, S0045: 1, L0717: 1, H0486: 1, H0318: 1, H0596: 1, T0110: 1, H0024: 1, H0428: 1, H0616: 1, H0551: 1, H0560: 1, H0625: 1, S0440: 1, H0647: 1, L0520: 1, L0763: 1, L0764: 1, L0521: 1, L0774: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0635: 1, L0809:	17q24	115660, 139250, 148500, 150200, 154275, 162100, 170500, 170500, 170500, 182452, 230200, 249000, 253250

953	HFXDB37	569805	963	159 - 224	3560			1, L0789: 1, L0663: 1, L0665: 1, S0374: 1, H0519: 1, H0435: 1, H0670: 1, H0134: 1, S0406: 1, H0555: 1, L0439: 1, L0750: 1, L0777: 1, L0752: 1, L0755: 1, L0758: 1, L0608: 1, H0542: 1 and H0422: 1.		
954	HFXDI32	580193	964	204 - 284	3561			S0001: 1		
955	HFXDJ43	560641	965	186 - 266	3562			AR060: 4, AR316: 3, AR089: 1		
								S0001: 1		
956	HFXDL76	821571	966	11 - 103	3563	Met-1 to Pro-6.		S0001: 1	12q23-24.1	124200, 147440, 160781, 181405, 235800, 261600, 261600, 600175, 601406, 601620, 601621
957	HFXDM75	638171	967	71 - 136	3564			S0001: 1		
958	HFXDO18	638172	968	308 - 337	3565			AR060: 7, AR316: 6, AR089: 5		
								S0001: 3		
959	HFXDP44	590269	969	258 - 335	3566			S0001: 1		
960	HFXDR08	621342	970	79 - 183	3567			S0001: 1, H0549: 1, L0743: 1 and H0445: 1.		
961	HFXDR28	621300	971	338 - 403	3568			S0001: 1		
962	HFXDR28	873859	972	1086 - 1151	3569			S0001: 1	17p13.2	
963	HFXDR47	846477	973	207 - 443	3570			AR089: 50, AR316: 34, AR060: 20		
								H0255: 5, S0001: 3, L0771: 2, H0254: 1, H0305: 1, S0360: 1, H0550: 1, H0497: 1, H0486: 1, S0036: 1, H0412: 1, L0662: 1, L0794: 1, L0523: 1 and L0743: 1.		
964	HFXDZ03	846323	974	251 - 286	3571			S0001: 1 and S0216: 1.		
965	HFXED33	823197	975	112 - 216	3572	Gln-20 to Gln-25.		S0001: 1		
966	HFXEE88	838822	976	59 - 145	3573			S0001: 1		

967	HFXGR32	534607	977	267 - 317	3574			S0001: 1		
968	HFXGT51	638174	978	42 - 263	3575			S0001: 1		
969	HFXGW16	825701	979	125 - 400	3576		His-19 to Ser-25, Thr-34 to Met-48, Ser-73 to Phe-81.	S0001: 2 and H0392: 1.		
970	HFXHCL15	608243	980	158 - 256	3577			S0001: 1, S0132: 1 and H0392: 1.		
971	HFXHL33	874255	981	240 - 359	3578			S0218: 1 and S0001: 1.		
972	HFXHL21	581363	982	70 - 159	3579		Asn-21 to Ser-29.	AR089: 6, AR316: 5, AR060: 5		
973	HFXHL83	564658	983	217 - 405	3580			S0001: 1		
974	HFXHM49	825693	984	302 - 532	3581			S0001: 1		
								AR244: 9, AR263: 6, AR184: 4, AR282: 4, AR052: 4, AR055: 4, AR309: 4, AR061: 3, AR251: 3, AR053: 3, AR253: 3, AR060: 3, AR312: 3, AR270: 3, AR213: 3, AR265: 3, AR286: 3, AR310: 2, AR033: 2, AR182: 2, AR185: 2, AR267: 2, AR089: 2, AR300: 2, AR289: 2, AR268: 2, AR285: 2, AR266: 2, AR283: 2, AR096: 2, AR313: 2, AR299: 2, AR298: 2, AR316: 2, AR277: 2, AR296: 2, AR284: 2, AR247: 2, AR192: 1, AR269: 1, AR290: 1, AR295: 1 S0001: 1		
975	HFXHM93	858720	985	307 - 519	3582			S0001: 1		
976	HFXHN89	786196	986	138 - 242	3583			S0001: 3 and S0134: 1.		
977	HFXJB21	743165	987	232 - 396	3584			AR089: 6, AR316: 5, AR060: 3 S0282: 1 and L0600: 1.		



978	HFXJN93	596815	988	197 - 331	3585			S0282: 2, S0051: 2 and L0002: 1.			
979	HFXJS15	800866	989	356 - 379	3586			AR089: 6, AR316: 6, AR060: 5 S0007: 5, L0747: 5, L0439: 4, H0024: 2, L0663: 2, L0759: 2, L0594: 2, S6024: 1, S0282: 1, S0354: 1, S0222: 1, H0013: 1, H0156: 1, S0010: 1, T0110: 1, L0471: 1, S6028: 1, H0551: 1, H0623: 1, S0386: 1, L0769: 1, L0639: 1, L0772: 1, L0800: 1, L0773: 1, L0776: 1, L0666: 1, H0144: 1, S0406: 1, S0028: 1, L0756: 1, L0779: 1, L0777: 1, L0480: 1, L0596: 1 and L0592: 1.	4		
980	HFXJT53	823591	990	111 - 1196	3587	Thr-44 to Gln-49, Gly-55 to Pro-69, His-78 to Tyr-85, Arg-193 to Asn-199, Asn-203 to Tyr-214, Glu-230 to Glu-235, Asp-261 to Ala-266, Glu-292 to Tyr-301.		AR060: 1 H0521: 4, L0731: 4, H0542: 3, H0556: 2, H0222: 2, S0282: 2, H0635: 2, H0063: 2, L0662: 2, L0794: 2, L0766: 2, L0665: 2, H0518: 2, L0748: 2, H0140: 1, S0298: 1, S0356: 1, H0250: 1, L0021: 1, H0575: 1, H0039: 1, H0622: 1, H0644: 1, H0598: 1, H0090: 1, L0475: 1, H0641: 1, H0529: 1, L0659: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0689: 1, H0435: 1, H0658: 1, H0648: 1, H0522: 1, H0576: 1, L0749: 1, S0031: 1, S0260: 1, H0543: 1, H0423: 1, H0422: 1 and L0600: 1.			
981	HFXKG56	621395	991	273 - 386	3588			S0282: 1, L0387: 1 and L0518: 1.			
982	HFXKL60	895307	992	210 - 311	3589			L0754: 8, H0052: 6, H0428: 6, L0752: 6, L0766: 5, L0748: 5, H0445: 5, S0434: 5, H0674: 4, L0655: 4, L0740: 4, H0556:			

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983	HFXLG08	885514	993	306 - 620	3590	Pro-75 to Asn-80.	1, S0027: 1, S0028: 1, L0746: 1, L0780: 1, L0731: 1, S0031: 1, L0591: 1, L0366: 1, S0106: 1, H0136: 1, S0192: 1, S0194: 1, H0542: 1, S0412: 1 and H0352: 1.			
984	HFXLK91	827288	994	120 - 1319	3591	Ser-62 to Lys-68, Ala-125 to Asp-134, Pro-391 to Ser-398.	AR089: 7, AR316: 6, AR060: 6 S0282: 1 AR060: 5, AR089: 4, AR316: 3, AR282: 2, AR182: 2, AR313: 2, AR226: 2, AR309: 1, AR186: 1, AR310: 1 H0707: 7, S0194: 3, S0474: 2, H0031: 2, H0494: 2, H0547: 2, S3014: 2, S0027: 2, S0026: 2, H0713: 1, S0298: 1, S0282: 1, H0664: 1, S0442: 1, S0354: 1, H0580: 1, S0476: 1, H0431: 1, H0392: 1, S0346: 1, H0421: 1, H0052: 1, H0150: 1, S0388: 1, H0083: 1, H0252: 1, H0604: 1, H0551: 1, H0412: 1, S0440: 1, H0529: 1, H0520: 1, S0126: 1, H0658: 1, S0330: 1, H0436: 1, S3012: 1, L0750: 1 and S0242: 1.	13q34	153900, 180381, 227500, 227600, 238970	
985	HFXLM32	866446	995	378 - 449	3592		AR204: 5, AR060: 4, AR310: 4, AR312: 3, AR055: 3, AR253: 3, AR309: 3, AR052: 3, AR213: 3, AR263: 3, AR313: 3, AR202: 3, AR186: 2, AR316: 2, AR251: 2, AR061: 2, AR265: 2, AR192: 2, AR089: 2, AR053: 2, AR183: 2, AR269: 2, AR277: 2, AR033: 2,			

986	HGBAX83	722222	996	151 - 270	3593				AR247: 2, AR299: 2, AR282: 2, AR266: 2, AR273: 2, AR104: 2, AR283: 2, AR238: 2, AR270: 2, AR185: 2, AR237: 2, AR233: 2, AR096: 2, AR231: 2, AR295: 1, AR300: 1, AR206: 1, AR275: 1, AR226: 1, AR289: 1, AR291: 1, AR293: 1, AR205: 1, AR232: 1, AR292: 1, AR177: 1 S0282: 1 and H0550: 1. H0014: 1			
987	HGBBR29	823106	997	251 - 436	3594	Lys-24 to Tyr-40, Pro-42 to Ser-48.			L0740: 7, S0192: 6, S0360: 4, L0471: 4, H0547: 4, L0754: 4, L0747: 4, S0418: 3, L0766: 3, L0659: 3, H0519: 3, L0439: 3, L0779: 3, L0591: 3, H0543: 3, H0024: 2, H0031: 2, H0553: 2, L0769: 2, L0771: 2, L0662: 2, H0520: 2, L0749: 2, L0757: 2, L0758: 2, L0485: 2, H0422: 2, T0002: 1, H0657: 1, S0212: 1, H0671: 1, S0358: 1, H0637: 1, T0114: 1, H0013: 1, L0105: 1, H0581: 1, T0110: 1, H0015: 1, H0083: 1, H0510: 1, S0250: 1, S0003: 1, H0212: 1, H0090: 1, H0551: 1, H0494: 1, L0475: 1, S0450: 1, H0132: 1, H0633: 1, S0142: 1, L0598: 1, H0529: 1, L0642: 1, L0768: 1, L0381: 1, L0803: 1, L0774: 1, L0375: 1, L0805: 1, L0657: 1, L0789: 1, L0663: 1, L0665: 1, S0126: 1, H0689: 1, H0690: 1, H0521: 1, H0522: 1, H0436: 1, S0028: 1, L0748: 1, L0752: 1, L0753:			

988	HGBDL51	862023	998	25 - 171	3595				1, L0731: 1, L0597: 1, L0592: 1, L0608: 1, L0595: 1, S0011: 1, S0026: 1, S0194: 1, H0542: 1 and H0423: 1. S0434: 3, S0442: 2, H0031: 2, H0644: 2, H0623: 2, H0436: 2, L0740: 2, L0750: 2, S0360: 1, S0045: 1, H0645: 1, H0592: 1, H0497: 1, H0599: 1, L0471: 1, H0014: 1, L0052: 1, S0306: 1, H0509: 1, H0646: 1, L0598: 1, L0761: 1, L0768: 1, L0794: 1, L0766: 1, L0657: 1, L0517: 1, S0004: 1, L0777: 1, L0753: 1, H0445: 1, S0026: 1 and H0542: 1.			
989	HGBDV35	581058	999	52 - 267	3596				L0748: 5, H0599: 4, H0521: 4, S0360: 3, H0575: 3, L0471: 3, H0014: 3, L0483: 3, H0494: 3, L0770: 3, L0769: 3, L0771: 3, S0384: 3, H0170: 2, H0662: 2, H0036: 2, H0375: 2, H0266: 2, H0040: 2, S0450: 2, H0647: 2, L0657: 2, L0659: 2, S0126: 2, H0672: 2, S0152: 2, H0631: 2, L0750: 2, S0242: 2, H0171: 1, H0556: 1, H0294: 1, S0218: 1, H0583: 1, H0650: 1, H0341: 1, S0418: 1, S0420: 1, S0358: 1, S0132: 1, H0549: 1, H0586: 1, H0486: 1, T0040: 1, L0021: 1, H0590: 1, L0105: 1, H0318: 1, T0110: 1, H0544: 1, H0046: 1, H0015: 1, H0510: 1, S0003: 1, H0252: 1, H0428: 1, H0644: 1, H0111: 1, H0628: 1, H0674: 1, H0264: 1, S0370: 1, S0150: 1, H0641: 1, H0633: 1, S0422: 1, H0517: 1, L0640: 1, L0646: 1, L0641: 1, L0764: 1, L0794: 1	9p21		108120, 112250, 247640, 600160, 600221, 601606

990	HGBDX28	665520	1000	231 - 254	3597				1, L0766: 1, L0649: 1, L0803: 1, L0775: 1, L0806: 1, L0655: 1, L0787: 1, S0374: 1, H0519: 1, H0539: 1, S0350: 1, S0454: 1, S0390: 1, S0027: 1, S0206: 1, L0439: 1, L0745: 1, L0752: 1, L0731: 1, S0194: 1, S0196: 1, H0543: 1 and H0423: 1. L0749: 7, L0766: 6, L0748: 6, L0777: 6, L0770: 2, L0794: 2, L0659: 2, L0666: 2, S0328: 2, L0744: 2, L0747: 2, L0731: 2, S0114: 1, H0661: 1, S0418: 1, S0360: 1, L0717: 1, H0587: 1, H0123: 1, H0050: 1, H0014: 1, L0763: 1, L0769: 1, L0800: 1, L0645: 1, L0803: 1, L0805: 1, L0657: 1, L0519: 1, L0789: 1, L0663: 1, S0374: 1, H0539: 1, L0751: 1, L0750: 1, L0756: 1, L0752: 1, L0758: 1, L0599: 1 and H0293: 1.	2		
991	HGBGX31	824177	1001	548 - 730	3598	Asp-52 to Ser-59.			AR060: 5, AR316: 4, AR089: 2 L0731: 5, H0623: 3, L0439: 3, H0413: 2, H0100: 2, L0803: 2, L0546: 2, H0661: 1, H0497: 1, H0486: 1, H0014: 1, H0412: 1, L0773: 1, L0794: 1, L0809: 1, L0791: 1, H0658: 1, S0406: 1, S014: 1, L0744: 1, L0750: 1, L0759: 1 and H0543: 1.	2		
992	HGBHE23	832303	1002	243 - 458	3599	Arg-24 to Asn-39, Ser-43 to Pro-61.			AR060: 14, AR316: 14, AR089: 13 L0747: 10, L0742: 9, L0731: 7, L0758: 7, L0752: 6, H0318: 5, L0769: 4, S0358: 3, H0046: 3, L0771: 3, L0776: 3, L0748: 3, L0749: 3, L0750: 3, L0759: 3, S0046: 2, H0455: 2, L0763: 2	2		

993	HGBHI15	608170	1003	30 - 122	3600				2, L0774: 2, L0518: 2, L0755: 2, L0362: 2, S0342: 1, H0381: 1, H0662: 1, S0444: 1, S0278: 1, H0370: 1, H0438: 1, L0623: 1, T0040: 1, H0427: 1, S0280: 1, H0599: 1, H0251: 1, H0085: 1, H0235: 1, H0544: 1, H0086: 1, H0009: 1, H0565: 1, L0471: 1, H0620: 1, H0014: 1, S0388: 1, S0051: 1, H0510: 1, H0266: 1, H0288: 1, H0328: 1, H0615: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0372: 1, L0646: 1, L0662: 1, L0766: 1, L0784: 1, L0517: 1, S0374: 1, H0660: 1, H0651: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0174: 1, S0390: 1, S0028: 1, L0754: 1, L0745: 1, L0779: 1, L0780: 1, L0757: 1, S0260: 1, L0592: 1, H0667: 1 and H0423: 1.				
994	HGCMW39	799530	1004	1005 - 1103	3601				H0014: 1 and H0015: 1. AR089: 3, AR316: 3, AR060: 3 L0754: 9, H0052: 6, L0749: 6, L0769: 5, L0766: 4, L0439: 4, L0757: 4, S0036: 3, L0775: 3, L0741: 3, L0747: 3, L0750: 3, L0591: 3, H0194: 2, H0050: 2, H0373: 2, H0213: 2, H0031: 2, H0617: 2, S0038: 2, H0494: 2, S0002: 2, L0771: 2, L0783: 2, S0328: 2, S0330: 2, L0743: 2, L0740: 2, L0745: 2, L0753: 2, L0731: 2, L0758: 2, L0596: 2, S0040: 1, L0785: 1, S0212: 1, S0282: 1, H0254: 1, S0420: 1, S0358: 1, S0360: 1, H0580: 1, L0717: 1, H0261: 1, H0550: Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900,			

995	HGLAG32	668271	1005	39 - 143	3602			1, S0222: 1, H0441: 1, H0497: 1, S0280: 1, H0706: 1, H0618: 1, S0010: 1, H0309: 1, H0231: 1, H0327: 1, H0009: 1, S0051: 1, T0010: 1, H0266: 1, H0188: 1, H0252: 1, H0039: 1, H0622: 1, H0708: 1, H0551: 1, H0379: 1, H0509: 1, H0646: 1, S0210: 1, H0529: 1, L0369: 1, L0641: 1, L0773: 1, L0803: 1, L0774: 1, L0806: 1, L0661: 1, L0658: 1, L0659: 1, L0792: 1, L0663: 1, H0593: 1, H0539: 1, H0555: 1, L0612: 1, S0114: 1, L0742: 1, L0744: 1, L0748: 1, L0751: 1, L0777: 1, L0752: 1, L0759: 1, L0603: 1, H0668: 1 and H0422: 1.		310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
996	HGLAH08	704084	1006	162 - 248	3603	Phe-17 to Trp-23, Thr-27 to Pro-34.		L0747: 3, L0794: 2, L0758: 2, H0351: 1, L0776: 1, L0740: 1, L0731: 1, L0605: 1 and L0465: 1.		
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997	HGLAH86	603525	1007	161 - 289	3604				1, H0440: 1, S0222: 1, H0333: 1, H0632: 1, H0486: 1, H0013: 1, L0021: 1, H0575: 1, T0082: 1, H0706: 1, H0036: 1, H0590: 1, S0346: 1, S0474: 1, S0049: 1, T0115: 1, H0572: 1, H0050: 1, L0471: 1, H0012: 1, H0024: 1, H0015: 1, H0201: 1, H0673: 1, H0090: 1, H0040: 1, H0551: 1, H0100: 1, H0494: 1, S0440: 1, L0769: 1, L0637: 1, L0800: 1, L0764: 1, L0773: 1, L0662: 1, L0364: 1, L0794: 1, L0388: 1, L0653: 1, L0382: 1, S0374: 1, L0438: 1, H0520: 1, S0126: 1, H0684: 1, H0666: 1, H0710: 1, H0696: 1, L0750: 1, L0757: 1, S0260: 1, H0445: 1, L0588: 1, L0608: 1, H0667: 1, S0242: 1, S0276: 1, H0542: 1 and H0543: 1.			148370, 238600, 238600, 238600, 600143, 601385, 602629
998	HGLBC33	701989	1008	91 - 183	3605	Lys-25 to Tyr-30.	AR060: 14, AR316: 12, AR089: 10 L0439: 12, L0754: 11, L0438: 10, L0803: 9, H0521: 9, H0574: 5, S0003: 5, L0805: 5, H0547: 5, L0747: 5, L0750: 5, S0040: 4, L0769: 4, L0740: 4, L0745: 4, H0170: 3, H0638: 3, S0222: 3, H0013: 3, H0052: 3, H0328: 3, H0591: 3, H0641: 3, H0529: 3, L0766: 3, L0659: 3, S0328: 3, L0758: 3, H0657: 2, L0471: 2, S0214: 2, H0090: 2, H0264: 2, H0509: 2, L0796: 2, L0774: 2, L0806: 2, L0517: 2, L0790: 2, H0519: 2, S0152: 2, H0522: 2, L0749: 2, L0731: 2, L0589: 2, L0594: 2, S0026: 2	8p22				

999	HGLBG15	701990	1009	191 - 271	3606				2, S0412: 2, H0624: 1, H0265: 1, T0002: 1, S6024: 1, S0114: 1, S0430: 1, H0583: 1, H0650: 1, S0116: 1, S0212: 1, S0282: 1, H0305: 1, H0589: 1, S0420: 1, S0358: 1, S0376: 1, H0728: 1, H0351: 1, H0431: 1, H0601: 1, H0592: 1, H0587: 1, H0497: 1, H0331: 1, H0632: 1, H0069: 1, H0156: 1, H0004: 1, S0346: 1, H0596: 1, H0327: 1, H0544: 1, H0546: 1, H0545: 1, H0178: 1, H0050: 1, H0620: 1, H0246: 1, H0015: 1, H0051: 1, H0510: 1, S6028: 1, H0179: 1, H0615: 1, H0428: 1, H0313: 1, H0038: 1, H0268: 1, T0041: 1, S0438: 1, S0440: 1, H0517: 1, L5575: 1, L0761: 1, L0794: 1, L0804: 1, L0784: 1, L0653: 1, L0526: 1, L0647: 1, L0367: 1, L0789: 1, L0791: 1, L0792: 1, L0666: 1, S0052: 1, L0565: 1, S0126: 1, H0683: 1, H0658: 1, H0670: 1, H0660: 1, S0146: 1, H0555: 1, H0576: 1, H0478: 1, L0748: 1, L0756: 1, L0777: 1, L0780: 1, L0759: 1, S0434: 1, S0436: 1, L0480: 1, S0242: 1, S0194: 1, H0542: 1 and H0422: 1.		
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AR267: 3, AR200: 3,						
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1001	HGLDA95	862035	1011	39 - 257	3608			1, H0031: 1, H0040: 1, H0634: 1, H0551: 1, H0264: 1, H0623: 1, H0100: 1, H0509: 1, S0422: 1, L0520: 1, L0769: 1, L0764: 1, L0662: 1, L0774: 1, L0375: 1, L0523: 1, L0809: 1, S0148: 1, H0520: 1, H0547: 1, H0689: 1, H0658: 1, S0380: 1, H0521: 1, H0704: 1, H0479: 1, L0439: 1, L0740: 1, L0754: 1, L0608: 1, L0594: 1, S0194: 1 and S0276: 1.		
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1002	HGLDB06	855945	1012	310 - 429	3609			L0438: 3, S0028: 3, L0502: 2, L0514: 2, L0511: 2, L0752: 2, H0265: 1, L0415: 1, H0208: 1, H0351: 1, H0550: 1, H0086: 1, H0123: 1, L0507: 1, L0506: 1, L0533: 1, H0144: 1 and L0747: 1.		
1003	HGLDE15	840364	1013	254 - 340	3610			L0779: 5, L0157: 2, L0803: 2, L0754: 2, L0595: 2, H0305: 1, H0589: 1, H0351: 1, L0021: 1, H0318: 1, H0596: 1, S0144: 1	1q25.2	145001, 150292, 208250, 600995, 601652

1004	HHBEI14	862026	1014	268 - 414	3611	Pro-33 to Ser-42.	1, L0364: 1, L0766: 1, L0809: 1, L0532: 1, H0667: 1 and H0542: 1. AR060: 5, AR316: 5, AR089: 4 L0748: 14, L0439: 12, H0619: 5, L0438: 5, H0618: 4, L0740: 4, H0253: 3, H0617: 3, H0265: 2, H0556: 2, S0049: 2, H0052: 2, H0545: 2, H0620: 2, H0373: 2, L0769: 2, L0803: 2, L0655: 2, L0517: 2, L0666: 2, H0670: 2, H0521: 2, L0741: 2, L0750: 2, L0777: 2, L0755: 2, L0596: 2, L0601: 2, H0422: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, H0663: 1, H0589: 1, S0420: 1, S0408: 1, H0580: 1, H0393: 1, S0278: 1, H0370: 1, H0586: 1, H0574: 1, H0486: 1, H0013: 1, H0244: 1, H0250: 1, H0635: 1, H0156: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, H0231: 1, H0123: 1, H0012: 1, S0050: 1, L0163: 1, H0201: 1, H0071: 1, H0188: 1, H0687: 1, H0252: 1, H0328: 1, H0032: 1, L0455: 1, H0598: 1, H0090: 1, H0634: 1, H0063: 1, T0067: 1, H0059: 1, L0351: 1, T0041: 1, H0494: 1, S0438: 1, H0132: 1, H0207: 1, H0647: 1, S0344: 1, S0002: 1, H0529: 1, L0763: 1, L0761: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0766: 1, L0804: 1, L0774: 1, L0775: 1, L0378: 1, L0806: 1, L0659: 1, L0636: 1, L0809: 1, L0664: 1, H0144: 1, H0689: 1, H0658: 1, H0660: 1, H0539: 1, H0696: 1,		
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1005	HHBGL33	862027	1015	219 - 284	3612			H0576: 1, S0027: 1, L0745: 1, L0749: 1, L0757: 1, L0758: 1, L0584: 1, L0591: 1, L0581: 1, H0542: 1, H0543: 1, S0424: 1 and H0352: 1. AR060: 3, AR316: 2, AR089: 1 L0623: 2, H0050: 2, L0021: 1, H0373: 1, L0768: 1 and S0330: 1.			
1006	HHEAW44	821654	1016	58 - 168	3613	Asn-10 to His-26.		H0556: 1, H0486: 1, L0663: 1 and H0542: 1.			
1007	HHEBP28	775744	1017	72 - 236	3614	Gln-44 to Cys-52.		L0748: 3, L0759: 2, H0549: 1, H0085: 1, H0051: 1, H0494: 1, L0662: 1, L0805: 1, L0776: 1, L0807: 1, L0809: 1, L0438: 1, H0539: 1, L0740: 1, S0031: 1, S0192: 1 and H0542: 1.	3p24.3-p22.1		154705, 182280, 190160, 227646, 261510, 600163, 601154
1008	HHECK41	898182	1018	51 - 401	3615	Asn-35 to Gln-40, Pro-56 to Phe-67, Gly-70 to Ser-75, Phe-93 to Cys-98.		AR060: 7, AR316: 6, AR089: 6 L0766: 6, H0543: 5, L0754: 4, H0318: 3, H0659: 3, S0114: 2, H0341: 2, H0264: 2, L0665: 2, H0445: 2, H0422: 2, S0134: 1, S0218: 1, H0662: 1, H0411: 1, H0392: 1, H0083: 1, H0634: 1, H0087: 1, T0041: 1, L0387: 1, L0776: 1, L0748: 1, L0747: 1, L0750: 1, L0779: 1 and H0542: 1.	X		
1009	HHECR10	621371	1019	128 - 226	3616			H0542: 1			
1010	HHEMC55	566796	1020	54 - 194	3617	Arg-33 to Ser-38.		AR313: 61, AR173: 58, AR096: 45, AR196: 44, AR300: 40, AR218: 39, AR161: 38, AR165: 37, AR166: 36, AR164: 36, AR299: 36, AR162: 35, AR258: 35, AR240: 35, AR089: 35, AR229: 34,			



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1011	HHEMM20	603534	1021	282 - 410	3618			AR289: 10, AR227: 9, AR266: 9, AR198: 9, AR201: 9, AR243: 8, AR232: 8, AR245: 8, AR210: 8, AR211: 7, AR207: 7, AR250: 6, AR205: 6, AR283: 6, AR246: 5, AR168: 5, AR252: 4, AR253: 4, AR215: 4, AR055: 4, AR061: 3, AR222: 3, AR171: 3, AR224: 2, AR217: 2, AR216: 2, AR223: 2, AR225: 2, AR169: 1 H0543: 1			
1012	HHEMM80	610264	1022	31 - 138	3619	Thr-26 to Lys-36.		AR060: 2, AR316: 1, AR089: 1 H0543: 1			
1013	HHEMP35	821328	1023	1334 - 1489	3620	Ser-19 to Gln-36.		H0543: 2 AR089: 47, AR316: 35, AR060: 25 L0751: 6, L0666: 5, L0662: 4, L0749: 4, L0777: 4, L0731: 4, H0046: 3, L0783: 3, H0648: 3, H0295: 2, H0600: 2, H0586: 2, H0328: 2, H0032: 2, H0038: 2, H0616: 2, L0771: 2, L0766: 2, L0809: 2, L0663: 2, L0743: 2, L0756: 2, L0757: 2, H0556: 1, S0040: 1, H0650: 1, T0008: 1, H0580: 1, S0045: 1, H0441: 1, L0468: 1, T0039: 1, T0040: 1, T0060: 1, S0280: 1, L0022: 1, H0309: 1, S0214: 1, H0428: 1, H0135: 1, H0488: 1, T0041: 1, H0494: 1, H0561: 1, S0002: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0764: 1, L0768: 1, L0649: 1, L0803: 1, L0774:	1q21		104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491

1014	HHEMZ08	840026	1024	70 - 390	3621	Pro-35 to Gly-46, Leu-65 to Arg-78, Pro-88 to Ser-94.	1, L0775: 1, L0375: 1, L0805: 1, L0654: 1, L0776: 1, L0661: 1, L0659: 1, L0382: 1, L0664: 1, L0665: 1, H0520: 1, H0660: 1, H0436: 1, S3014: 1, L0439: 1, L0752: 1, L0759: 1, L0595: 1 and H0543: 1. AR089: 13, AR316: 11, AR060: 8 L0777: 13, L0766: 6, L0803: 4, L0752: 4, L0769: 3, L0794: 3, L0747: 3, L0755: 3, L0805: 2, L0776: 2, L0655: 2, L0659: 2, H0547: 2, L0759: 2, L0596: 2, H0650: 1, S0360: 1, S0010: 1, H0150: 1, H0024: 1, H0051: 1, H0553: 1, H0090: 1, H0412: 1, L0761: 1, L0771: 1, L0363: 1, L0804: 1, H0519: 1, S0122: 1, H0435: 1, H0658: 1, H0648: 1, L0740: 1, L0750: 1, L0757: 1, H0543: 1 and H0423: 1.		
1015	HHENC17	826646	1025	187 - 297	3622	L0748: 6, L0604: 6, L0766: 5, L0749: 4, H0556: 3, H0013: 3, H0024: 3, L0779: 3, H0543: 3, H0123: 2, H0674: 2, H0633: 2, L0662: 2, L0776: 2, H0547: 2, H0170: 1, H0171: 1, S0114: 1, S0218: 1, H0341: 1, S0001: 1, H0305: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0476: 1, H0369: 1, S0222: 1, T0060: 1, H0590: 1, L0738: 1, H0050: 1, H0375: 1, H0266: 1, H0615: 1, H0591: 1, H0264: 1, T0041: 1, L0794: 1, L0561: 1, L0803: 1, L0805: 1, L0665: 1, H0520: 1, H0519: 1, H0684: 1, H0660: 1, H0555: 1, S0392: 1, L0777: 1, L0759: 1, H0595: 1, H0653:			

1016	HHENF95	709685	1026	206 - 262	3623		1 and H0542: 1. AR089: 57, AR316: 41, AR060: 27 H0543: 2, S0134: 1, L0604: 1 and H0352: 1.		
1017	HHENR74	825671	1027	5 - 193	3624	Thr-44 to His-51.	H0543: 1		
1018	HHENU33	560844	1028	143 - 235	3625		AR162: 5, AR161: 5, AR311: 4, AR163: 4, AR096: 4, AR263: 4, AR313: 4, AR165: 4, AR164: 4, AR166: 4, AR308: 4, AR225: 4, AR238: 3, AR178: 3, AR183: 3, AR269: 3, AR275: 3, AR296: 3, AR264: 3, AR271: 3, AR177: 3, AR089: 3, AR312: 3, AR309: 3, AR245: 3, AR180: 3, AR176: 3, AR295: 3, AR229: 3, AR213: 3, AR297: 3, AR289: 3, AR286: 3, AR268: 3, AR272: 3, AR239: 3, AR169: 3, AR270: 3, AR237: 3, AR214: 3, AR179: 3, AR228: 2, AR175: 2, AR290: 2, AR285: 2, AR267: 2, AR231: 2, AR221: 2, AR182: 2, AR234: 2, AR293: 2, AR287: 2, AR274: 2, AR216: 2, AR174: 2, AR060: 2, AR240: 2, AR185: 2, AR282: 2, AR230: 2, AR300: 2, AR039: 2, AR236: 2, AR181: 2, AR316: 2, AR217: 2, AR226: 2, AR232: 2,		

1019	HHENY07	638321	1029	87 - 143	3626			AR053: 2, AR233: 2, AR266: 2, AR173: 2, AR061: 2, AR222: 2, AR204: 2, AR227: 2, AR104: 2, AR288: 2, AR210: 2, AR223: 2, AR291: 2, AR235: 1, AR033: 1, AR294: 1, AR277: 1, AR299: 1, AR055: 1, AR243: 1, AR168: 1, AR224: 1, AR261: 1, AR211: 1, AR283: 1, AR171: 1 H0543: 1			1p22	170995, 191540, 274270, 274270, 600309, 601414, 602094
1020	HHEOK77	841099	1030	790 - 954	3627			AR089: 4, AR316: 4, AR060: 3 S0007: 2, H0170: 1, S0218: 1, H0393: 1, H0586: 1, L0768: 1, L0766: 1, H0521: 1, L0740: 1, L0747: 1, L0756: 1, L0731: 1 and H0543: 1. L0766: 13, L0731: 7, S0360: 6, S0152: 6, H0144: 5, L0590: 4, H0543: 4, H0341: 3, H0575: 3, H0251: 3, S0003: 3, L0747: 3, L0749: 3, L0599: 3, S0212: 2, H0592: 2, H0497: 2, H0486: 2, H0013: 2, H0318: 2, H0038: 2, H0040: 2, H0623: 2, H0560: 2, L0775: 2, S0122: 2, H0521: 2, S0028: 2, L0743: 2, L0751: 2, L0752: 2, L0757: 2, H0445: 2, L0604: 2, S0194: 2, L0600: 2, H0159: 1, S0134: 1, L0785: 1, H0662: 1, H0402: 1, L0481: 1, S0420: 1, S0356: 1, S0358: 1, H0393: 1, H0431: 1, H0612: 1, H0587: 1, T0039: 1, H0427: 1, L0021: 1, H0599: 1, H0004: 1, H0581: 1, H0421: 1, H0544:				

1021	HHEPE72	621254	1031	344 - 376	3628				1, H0545: 1, L0471: 1, H0014: 1, L0163: 1, H0083: 1, H0510: 1, H0375: 1, S0022: 1, S0214: 1, H0622: 1, H0316: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, S0002: 1, S0426: 1, L0369: 1, L0761: 1, L0772: 1, L0764: 1, L0521: 1, L0662: 1, L0655: 1, S0374: 1, H0520: 1, S0126: 1, H0660: 1, S0328: 1, H0539: 1, S0380: 1, H0522: 1, L0754: 1, L0758: 1, L0759: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1, S0026: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and H0506: 1.		
1022	HHEPE81	840614	1032	1393 - 1416	3629				H0543: 1 AR089: 8, AR316: 7, AR060: 6 L0803: 11, L0439: 10, L0755: 10, L0747: 9, L0759: 9, L0794: 8, L0750: 8, H0657: 7, L0766: 7, L0752: 7, L0804: 6, H0547: 6, L0740: 6, S0192: 6, H0543: 6, S0412: 6, H0529: 5, L0754: 5, L0753: 5, L0731: 5, S0040: 4, H0580: 4, H0013: 4, H0032: 4, H0090: 4, H0591: 4, S0360: 3, H0574: 3, H0266: 3, S0003: 3, H0615: 3, H0428: 3, H0413: 3, L0768: 3, L0805: 3, L0776: 3, L0809: 3, L0666: 3, L0663: 3, H0144: 3, L0745: 3, L0758: 3, H0423: 3, H0422: 3, H0624: 2, H0170: 2, H0638: 2, S0356: 2, S0358: 2, S0132: 2, H0415: 2, L0021: 2, H0052: 2, H0313: 2, H0628: 2, L0351: 2, L0520: 2, L0770: 2, L0764: 2, L0657: 2, L0659: 2, L0438: 13		

1023	HHEPM64	844953	1033	559 - 663	3630	<p>2, H0519: 2, H0539: 2, L0602: 2, L0756: 2, L0757: 2, L0592: 2, L0485: 2, L0581: 2, S0011: 2, H0542: 2, H0506: 2, H0171: 1, S0116: 1, H0341: 1, S0212: 1, H0663: 1, H0125: 1, S0420: 1, S0376: 1, S0408: 1, S0468: 1, S0046: 1, H0619: 1, S6026: 1, H0411: 1, H0369: 1, S0222: 1, H0587: 1, H0486: 1, T0039: 1, T0040: 1, H0427: 1, H0599: 1, H0581: 1, H0546: 1, H0545: 1, H0375: 1, S6028: 1, H0688: 1, H0622: 1, H0553: 1, L0055: 1, H0674: 1, H0551: 1, H0264: 1, H0268: 1, H0412: 1, S0038: 1, T0042: 1, H0561: 1, H0509: 1, S0150: 1, H0647: 1, L0598: 1, L0769: 1, L0761: 1, L0646: 1, L0800: 1, L0771: 1, L0648: 1, L0662: 1, L0774: 1, L0806: 1, L0606: 1, L0527: 1, L0783: 1, L0382: 1, L0545: 1, L0788: 1, L0790: 1, L0791: 1, L0664: 1, H0520: 1, H0365: 1, H0689: 1, H0435: 1, H0670: 1, H0660: 1, H0521: 1, H0478: 1, S0027: 1, S0206: 1, L0744: 1, L0777: 1, L0780: 1, H0445: 1, H0707: 1, L0596: 1, L0608: 1, L0594: 1, H0667: 1, S0242: 1, S0276: 1 and S0424: 1.</p> <p>L0766: 5, L0809: 4, L0756: 4, S0422: 3, H0657: 2, H0553: 2, L0662: 2, L0783: 2, L0664: 2, H0144: 2, H0519: 2, S0126: 2, H0658: 2, L0777: 2, L0731: 2, L0758: 2, H0543: 2, H0624: 1, H0341: 1, S0212: 1, L0021: 1, H0150: 1, H0050: 1, L0471: 1.</p>		
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1024	HHEQ104	799533	1034	476 - 613	3631				AR060: 2, AR316: 1 H0543: 2, H0592: 1 and H0555: 1.			
1025	HHEQY60	799535	1035	180 - 188	3632				H0543: 1			
1026	HHEBA31	701991	1036	131 - 265	3633				L0748: 9, L0731: 7, L0771: 6, L0759: 6, H0013: 5, L0764: 4, L0747: 4, L0758: 4, H0265: 3, H0039: 3, H0038: 3, L0769: 3, L0766: 3, L0775: 3, H0144: 3, L0755: 3, S0444: 2, H0318: 2, H0050: 2, L0471: 2, H0266: 2, L0374: 2, L0649: 2, L0663: 2, L0664: 2, H0547: 2, S0126: 2, H0670: 2, L0740: 2, L0754: 2, L0750: 2, L0593: 2, H0667: 2, H0170: 1, H0171: 1, H0685: 1, H0662: 1, S0354: 1, S0360: 1, H0580: 1, H0151: 1, S0045: 1, H0357: 1, H0586: 1, H0331: 1, H0574: 1, H0635: 1, H0575: 1, H0263: 1, H0596: 1, H0545: 1, H0012: 1, H0620: 1, H0350: 1, H0355: 1, H0510: 1, H0428: 1, H0604: 1, H0031: 1, H0553: 1, S0366: 1, H0040: 1, H0616: 1, H0063: 1, H0059: 1, H0560: 1, H0561: 1, H0529: 1, L0640: 1, L0637: 1, L0761: 1, L0772: 1, L0646: 1, L0774: 1, L0375: 1, L0805: 1, L0653: 1, L0382: 1.			



1027	HHFCI81	847387	1037	68 - 181	3634	Arg-24 to His-32.	1, L0352: 1, S0152: 1, S0350: 1, H0521: 1, H0696: 1, S0044: 1, H0627: 1, S0027: 1, L0749: 1, L0752: 1, H0595: 1, L0591: 1, L0595: 1, L0361: 1, S0011: 1, S0194: 1, S0276: 1 and H0423: 1. L0438: 6, L0439: 6, L0776: 3, L0756: 3, L0805: 2, H0341: 1, H0261: 1, S0222: 1, H0013: 1, S0010: 1, H0052: 1, H0050: 1, H0373: 1, S0388: 1, H0416: 1, S0036: 1, L0435: 1, L0745: 1, L0684: 1 and L0596: 1.	4		
1028	HHFCN78	638179	1038	161 - 256	3635	Ala-24 to Lys-31.	S0116: 1, H0050: 1, L0438: 1 and L0740: 1.			
1029	HHFCT95	581059	1039	24 - 92	3636		L0439: 13, L0776: 7, L0766: 6, L0771: 5, L0742: 4, L0731: 4, L0758: 4, L0664: 3, L0747: 3, L0752: 3, H0294: 2, H0263: 2, H0688: 2, L0770: 2, L0764: 2, L0803: 2, L0805: 2, L0602: 2, L0754: 2, L0756: 2, L0779: 2, H0707: 2, L0608: 2, S0134: 1, H0661: 1, H0664: 1, S0356: 1, S0444: 1, S0408: 1, H0486: 1, S0010: 1, S0049: 1, H0050: 1, L0471: 1, S0003: 1, H0428: 1, L0483: 1, H0031: 1, H0617: 1, H0059: 1, L0761: 1, L0800: 1, L0642: 1, L0794: 1, L0515: 1, L0659: 1, L0518: 1, L0809: 1, L0665: 1, L0438: 1, S0330: 1, H0521: 1, H0522: 1, H0445: 1, S0434: 1, H0667: 1 and H0423: 1.			
1030	HHFDN16	598713	1040	183 - 275	3637		AR274: 161, AR263: 158, AR247: 155, AR211: 150, AR210: 137, AR053: 131, AR272: 129, AR245: 129,			

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1031	HHFEB79	1300768	1041	120 - 2390	3638			AR258: 55, AR060: 55, AR172: 55, AR268: 54, AR169: 54, AR173: 53, AR231: 53, AR266: 53, AR289: 53, AR270: 52, AR287: 52, AR204: 52, AR180: 52, AR178: 52, AR170: 51, AR193: 51, AR164: 51, AR191: 49, AR166: 49, AR171: 49, AR257: 49, AR277: 48, AR286: 47, AR294: 47, AR055: 47, AR168: 45, AR165: 43, AR269: 41, AR182: 41, AR230: 40, AR229: 39, AR234: 37, AR238: 36, AR237: 35, AR061: 35, AR233: 34, AR239: 33, AR227: 31, AR226: 30, AR176: 27, AR228: 25 H0050: 3		
								AR215: 14, AR225: 11, AR217: 8, AR089: 8, AR221: 8, AR235: 7, AR161: 7, AR162: 7, AR163: 7, AR170: 7, AR172: 6, AR216: 6, AR168: 6, AR176: 6, AR183: 6, AR316: 6, AR269: 6, AR171: 5, AR182: 5, AR224: 5, AR060: 5, AR233: 5, AR214: 5, AR296: 5, AR180: 4, AR266: 4, AR222: 4, AR181: 4, AR228: 4, AR290: 4, AR263: 4, AR178: 4, AR173: 4, AR247: 4, AR257: 4, AR270: 4,		



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1033	HHFEN34	701992	1043	270 - 293	3640			AR060: 7, AR316: 6, AR089: 5 H0050: 1 and L0766: 1.						
1034	HHFFZ01	847388	1044	288 - 395	3641			L0741: 18, L0766: 10, L0438: 9, H0052: 6, L0748: 6, H0622: 5, H0617: 5, L0665: 5, H0539: 5, H0542: 5, S0418: 4, H0553: 4, H0059: 4, H0494: 4,	17					

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1035	HHFGI71	663531	1045	62 - 160	3642	Ser-20 to Phe-31.		S0144: 1, S0142: 1, S0210: 1, H0695: 1, L0369: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0643: 1, L0648: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0651: 1, L0653: 1, L0658: 1, L0383: 1, L0663: 1, H0519: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, H0134: 1, H0555: 1, H0576: 1, S3014: 1, S0032: 1, L0745: 1, L0749: 1, L0731: 1, H0445: 1, S0434: 1, L0581: 1, L0361: 1, H0668: 1, S0276: 1, L0469: 1, H0422: 1 and S0460: 1.		
1036	HHFGJ54	731870	1046	68 - 121	3643			H0050: 1 H0052: 18, L0743: 10, L0439: 9, L0742: 7, S0007: 6, S0222: 6, L0779: 6, H0013: 5, H0031: 5, L0809: 5, H0581: 4, L0157: 4, L0769: 4, H0144: 4, S0045: 3, S0049: 3, H0551: 3, L0518: 3, L0741: 3, L0744: 3, L0777: 3, S0260: 3, H0667: 3, H0650: 2, L0717: 2, H0261: 2, H0455: 2, H0438: 2, H0333: 2, H0486: 2, S0010: 2, H0194: 2, H0123: 2, H0201: 2, L0455: 2, H0135: 2, H0038: 2, S0038: 2, L0662: 2, L0776: 2, L0438: 2, S0152: 2, H0521: 2, L0748: 2, L0740: 2, L0747: 2, L0786: 2, L0758: 2, H0445: 2, L0592: 2, L0441: 1, H0265: 1, H0556: 1, H0685: 1, S0114: 1, S0282: 1, S0029: 1, S0420: 1, L0005: 1, S0358: 1, S0046: 1, S0300: 1, H0437: 1, H0441: 1, H0392: 1, H0244: 1, S0280: 1, T0082: 1, S0346: 1, H0434: 1, H0545: 1,	l1pter-l1p15.5	



1037	HHFGL38	833063	1047	19 - 123	3644			H0009: 1, H0178: 1, H0050: 1, S0051: 1, T0079: 1, H0355: 1, H0510: 1, S6028: 1, H0286: 1, S0003: 1, H0328: 1, H0622: 1, H0628: 1, H0169: 1, H0068: 1, H0598: 1, H0634: 1, T0041: 1, H0509: 1, H0633: 1, H0652: 1, H0529: 1, L0770: 1, L0638: 1, L0363: 1, L0794: 1, L0658: 1, L0368: 1, L0790: 1, S0428: 1, S0126: 1, H0684: 1, H0666: 1, H0651: 1, S0028: 1, S0206: 1, L0751: 1, L0749: 1, L0750: 1, S0031: 1, S0436: 1, L0596: 1, L0589: 1, L0591: 1, L0608: 1, L0594: 1, L0366: 1, S0192: 1 and S0194: 1.		
1038	HHFGR75	654845	1048	213 - 326	3645			AR089: 9, AR316: 7, AR060: 5 H0619: 2, H0050: 1, H0179: 1, H0271: 1 and H0521: 1.		
1039	HHFGZ23	721653	1049	17 - 103	3646		Arg-13 to Asp-19.	H0436: 2, H0318: 1, S0049: 1, H0050: 1 and L0520: 1.		
1040	HHFHG26	608250	1050	200 - 295	3647		Asp-22 to Ser-31.	L0438: 3, H0050: 2, H0510: 2, L0581: 2, H0156: 1 and L0665: 1.		
1041	HHFHM47	638181	1051	231 - 236	3648			H0050: 2 and H0392: 1.		
1042	HHGAA76	767745	1052	223 - 276	3649			H0050: 1, H0179: 1 and L0748: 1.		
1043	HHGAD46	812646	1053	363 - 392	3650			S0052: 2, H0306: 1, H0333: 1, L0471: 1, H0328: 1, L0783: 1 and L0809: 1.		
								AR060: 39, AR316: 23, AR089: 5 L0774: 6, H0046: 5, H0012: 3, H0333: 2, L0769: 2, H0662: 1, H0550: 1, H0370: 1, H0036: 1, T0003: 1, H0040: 1, L0768: 1, L0803: 1, L0659: 1, L0792: 1.	22q11-q12	104170, 104170, 104170, 115470, 123620, 133450, 133450, 142360, 188400, 188400, 217095, 600850, 601607, 601669

1044	HHGAT09	603526	1054	314 - 364	3651		1, L0666: 1 and H0008: 1. S0192: 7, L0747: 5, H0004: 4, L0666: 4, L0740: 4, S0360: 3, H0046: 3, H0529: 3, L0750: 3, L0777: 3, L0757: 3, S0474: 2, H0615: 2, H0622: 2, H0617: 2, L0598: 2, L0769: 2, L0659: 2, H0547: 2, S0188: 2, L0731: 2, L0758: 2, L0759: 2, H0170: 1, S0470: 1, H0713: 1, H0583: 1, S0001: 1, H0669: 1, S0358: 1, H0675: 1, S0408: 1, H0580: 1, H0455: 1, H0333: 1, T0040: 1, H0013: 1, L0021: 1, S0010: 1, H0545: 1, H0023: 1, H0356: 1, H0124: 1, H0551: 1, H0264: 1, S0372: 1, S0344: 1, UNKWN: 1, L0637: 1, L0372: 1, L0646: 1, L0374: 1, L0364: 1, L0766: 1, L0561: 1, L0774: 1, L0776: 1, L0657: 1, L0526: 1, L0543: 1, H0519: 1, H0659: 1, H0539: 1, H0627: 1, S0028: 1, L0756: 1, H0445: 1, L0592: 1 and L0462: 1.	15q21.3-q22.31	109700, 151670, 600374, 601780
1045	HHGBC21	840455	1055	121 - 225	3652		L0666: 8, S0414: 7, L0731: 7, H0169: 4, L0659: 4, L0759: 4, H0673: 3, L0526: 3, H0659: 3, H0657: 2, S0376: 2, H0427: 2, H0428: 2, H0674: 2, H0412: 2, L0770: 2, L0662: 2, L0775: 2, L0633: 2, L0663: 2, S0053: 2, S0126: 2, H0648: 2, S0328: 2, S0330: 2, S0392: 2, L0439: 2, L0777: 2, H0445: 2, L0599: 2, H0685: 1, H0650: 1, S0116: 1, H0662: 1, H0402: 1, S0356: 1, L0717: 1, H0333: 1, H0331: 1, H0574: 1, H0632: 1, H0486: 1, H0270: 1, L0586: 1, L0021:		

1046	HHGBF91	603907	1056	36 - 176	3653	Trp-13 to Leu-20.	<p>1, T0048: 1, H0421: 1, H0596: 1, H0597: 1, H0150: 1, H0050: 1, H0015: 1, H0083: 1, H0399: 1, H0510: 1, S0214: 1, H0553: 1, H0316: 1, H0087: 1, H0551: 1, T0004: 1, L0351: 1, S0344: 1, H0529: 1, L0520: 1, L0762: 1, L0638: 1, L0637: 1, L0764: 1, L0766: 1, L0803: 1, L0650: 1, L0776: 1, L0655: 1, L0558: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0216: 1, L0565: 1, H0689: 1, H0672: 1, S0378: 1, S0152: 1, H0522: 1, S0004: 1, S0032: 1, L0748: 1, L0740: 1, L0754: 1, L0752: 1, L0755: 1, L0757: 1, L0758: 1, L0608: 1, S0242: 1, H0423: 1, H0422: 1 and S0462: 1.</p> <p>L0766: 8, L0751: 8, H0486: 4, L0754: 4, L0752: 4, L0755: 4, H0657: 3, H0547: 3, L0749: 3, H0328: 2, H0553: 2, H0646: 2, S0422: 2, L0771: 2, L0662: 2, L0776: 2, L0655: 2, L0789: 2, H0651: 2, H0521: 2, H0436: 2, L0740: 2, L0747: 2, L0756: 2, L0779: 2, L0731: 2, L0757: 2, H0624: 1, H0556: 1, T0002: 1, H0583: 1, S0354: 1, S0360: 1, H0580: 1, H0497: 1, H0333: 1, H0036: 1, S0049: 1, H0309: 1, H0024: 1, S0003: 1, H0428: 1, H0316: 1, H0040: 1, H0413: 1, H0560: 1, H0529: 1, L0369: 1, L0770: 1, L0646: 1, L0768: 1, L0804: 1, L0650: 1, L0806: 1, L0805: 1, L0527: 1, L0666: 1, L0665: 1, H0693: 1, H0519: 1, H0659: 1, H0658: 1, S0174: 1.</p>		
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1047	HHGBG63	824060	1057	25 - 405	3654	Trp-54 to Glu-95.	1, H0134: 1, L0753: 1, L0759: 1, H0343: 1 and L0599: 1. AR089: 32, AR316: 23, AR060: 14 L0665: 14, L0666: 11, L0794: 9, L0803: 7, L0657: 7, L0659: 7, L0663: 6, L0748: 6, L0740: 6, H0659: 5, L0809: 4, L0664: 4, L0747: 4, L0777: 4, L0471: 3, L0638: 3, L0637: 3, H0651: 3, S0378: 3, L0758: 3, L0362: 3, S0026: 3, H0685: 2, S0360: 2, T0006: 2, L0763: 2, L0761: 2, L0646: 2, L0648: 2, L0662: 2, L0363: 2, L0375: 2, L0805: 2, L0653: 2, L0517: 2, L0518: 2, L0783: 2, H0435: 2, H0672: 2, S0044: 2, L0439: 2, L0749: 2, L0756: 2, L0759: 2, L0608: 2, L0593: 2, L0361: 2, H0423: 2, H0352: 2, H0265: 1, S0040: 1, S0114: 1, S0134: 1, L0785: 1, S0418: 1, S0356: 1, S0354: 1, S0358: 1, S0376: 1, H0580: 1, S0045: 1, S0140: 1, L0717: 1, S0222: 1, H0333: 1, H0643: 1, H0427: 1, H0052: 1, H0263: 1, H0150: 1, S0388: 1, S0334: 1, H0615: 1, H0622: 1, H0169: 1, H0068: 1, H0038: 1, H0040: 1, H0616: 1, H0412: 1, H0059: 1, T0041: 1, L0065: 1, S0002: 1, H0026: 1, L0762: 1, L0640: 1, L0371: 1, L0639: 1, L0627: 1, L0641: 1, L0374: 1, L0764: 1, L0771: 1, L0767: 1, L0768: 1, L0766: 1, L0650: 1, L0775: 1, L0651: 1, L0776: 1, L0655: 1, L0527: 1, L0658: 1, L0656: 1, L0782: 1, L0545: 1,				
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1048	HHGBV02	604912	1058	220 - 420	3655	Ser-18 to His-24, Asn-50 to Ala-56.		H0333: 1, H0591: 1, L0766: 1, H0659: 1 and L0749: 1.			
1049	HHGBW55	638183	1059	122 - 271	3656	Arg-23 to Gly-29.		AR060: 7, AR316: 7, AR089: 6 H0038: 6, L0794: 6, L0758: 5, H0616: 4, L0779: 3, L0789: 2, L0588: 2, H0333: 1, H0618: 1, H0253: 1, H0318: 1, H0581: 1, T0041: 1, L0769: 1, L0803: 1 and L0786: 1.			
1050	HHGBX88	638323	1060	234 - 440	3657	Gln-52 to Leu-57.		AR223: 32, AR224: 30, AR225: 29, AR222: 24, AR177: 22, AR173: 22, AR176: 20, AR171: 19, AR168: 19, AR175: 18, AR221: 18, AR181: 18, AR269: 18, AR189: 18, AR191: 18, AR183: 17, AR190: 17, AR174: 17, AR182: 16, AR172: 16, AR169: 14, AR211: 14, AR214: 14, AR290: 14, AR196: 13, AR165: 13, AR240: 13, AR178: 13, AR210: 13, AR164: 13, AR166: 12, AR296: 12, AR247: 12, AR287: 11, AR270: 11, AR199: 11, AR231: 11, AR234: 11, AR161: 11, AR162: 11, AR163: 11, AR282: 11, AR200: 11, AR228: 10,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777	

[illegible]

1051	HHGCA26	610265	1061	137 - 253	3658	Gly-33 to Lys-38.	5, L0744: 4, L0751: 4, L0752: 4, H0550: 3, H0546: 3, H0014: 3, L0771: 3, L0766: 3, L0774: 3, L0775: 3, S0358: 2, H0392: 2, T0048: 2, H0188: 2, L0483: 2, H0163: 2, L0646: 2, L0542: 2, L0666: 2, L0665: 2, S0380: 2, H0696: 2, S0406: 2, L0740: 2, L0596: 2, H0170: 1, H0717: 1, T0049: 1, S0212: 1, H0638: 1, S0360: 1, H0730: 1, S0046: 1, S0476: 1, S0222: 1, H0333: 1, T0060: 1, S0280: 1, H0156: 1, H0309: 1, H0597: 1, H0545: 1, H0041: 1, H0266: 1, S0364: 1, H0413: 1, H0494: 1, S0294: 1, H0652: 1, L0800: 1, L0645: 1, L0764: 1, L0765: 1, L0773: 1, L0768: 1, L0375: 1, L0376: 1, L0806: 1, L0656: 1, L0659: 1, L0547: 1, L0529: 1, L0792: 1, S0428: 1, H0144: 1, S0374: 1, H0593: 1, S0126: 1, S0027: 1, L0743: 1, L0749: 1, L0750: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1 and L0599: 1.		
1052	HHGDA81	782757	1062	676 - 735	3659		H0333: 1, H0623: 1 and H0648: 1. AR089: 45, AR316: 32, AR060: 19 L0740: 15, L0752: 11, L0731: 11, H0052: 9, L0769: 9, L0748: 9, L0753: 8, L0746: 7, L0747: 7, L0775: 6, L0751: 6, L0757: 6, L0758: 6, H0599: 5, H0545: 5, L0471: 5, H0628: 5, L0809: 5, H0156: 4, S0003: 4, L0776: 4, L0777: 4, L0759: 4, L0599: 4, L0603: 4, S0276: 4, S0010: 3, H0123: 3, H0051: 1.		

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1053	HHGDI12	747680	1063	21 - 275	3660	Glu-40 to His-47.	1, H0445: 1, S0394: 1, L0608: 1, H0665: 1 and H0423: 1. H0333: 1, S0031: 1 and L0589: 1. H0333: 1 and S0049: 1.			
1054	HHGDR05	610266	1064	73 - 183	3661		AR060: 14, AR316: 13, AR089: 10 L0777: 9, L0362: 6, H0265: 5, H0333: 5, H0539: 5, H0556: 4, H0124: 4, S0027: 4, L0439: 4, L0601: 4, H0599: 3, H0309: 3, H0056: 3, L0752: 3, L0593: 3, H0575: 2, H0590: 2, H0318: 2, H0012: 2, H0266: 2, H0644: 2, H0032: 2, H0135: 2, H0163: 2, H0551: 2, H0268: 2, T0042: 2, S0002: 2, L0770: 2, L0764: 2, L0766: 2, L0657: 2, L0783: 2, H0478: 2, L0742: 2, L0748: 2, L0754: 2, L0750: 2, L0758: 2, L0591: 2, L0581: 2, H0423: 2, H0422: 2, H0686: 1, S0040: 1, H0294: 1, H0657: 1, H0341: 1, S0282: 1, H0661: 1, H0638: 1, H0125: 1, S0418: 1, L0005: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0278: 1, H0441: 1, H0431: 1, H0370: 1, T0060: 1, H0013: 1, S0010: 1, S0346: 1, T0048: 1, S0474: 1, H0581: 1, H0085: 1, H0046: 1, L0157: 1, H0050: 1, H0620: 1, H0014: 1, H0051: 1, H0615: 1, H0428: 1, L0483: 1, H0166: 1, H0090: 1, H0040: 1, H0264: 1, H0059: 1, T0004: 1, H0100: 1, L0351: 1, L0564: 1, T0041: 1, H0560: 1, L0598: 1, L0763: 1, L0769: 1, L0638: 1, L0637: 1, L0374: 1, L0771: 1, L0662: 1, L0387: 1.			
1055	HHGDR92	840454	1065	113 - 175	3662				22q13.31	250100, 250800, 250800

1056	HHGDS56	663379	1066	224 - 307	3663				1, L0650: 1, L0774: 1, L0775: 1, L0776: 1, L0661: 1, L0659: 1, L0540: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, S0152: 1, H0521: 1, S014: 1, S0028: 1, S0032: 1, L0731: 1, L0759: 1, H0445: 1, L0599: 1, L0361: 1, H0665: 1, H0542: 1 and S0460: 1.		
1057	HHGDW65	825652	1067	223 - 321	3664				H0333: 1		
1058	HHLBA86	846326	1068	363 - 482	3665				H0333: 3		
1059	HHNAC56	562030	1069	131 - 241	3666				T0091: 1		
1060	HPBG90	603908	1070	127 - 360	3667				T0090: 1		
									L0439: 8, L0438: 6, L0769: 5, H0620: 4, L0789: 4, S0354: 3, L0666: 3, L0740: 3, H0716: 2, S0358: 2, H0013: 2, H0052: 2, H0050: 2, H0012: 2, H0428: 2, H0622: 2, H0135: 2, L0768: 2, L0803: 2, L0805: 2, L0776: 2, L0658: 2, L0659: 2, L0665: 2, L0743: 2, L0754: 2, L0747: 2, L0750: 2, L0601: 2, H0170: 1, H0717: 1, H0483: 1, H0255: 1, S0418: 1, S0442: 1, S0408: 1, H0619: 1, H0645: 1, L0717: 1, H0549: 1, S0222: 1, H0441: 1, H0431: 1, H0586: 1, H0333: 1, H0574: 1, H0486: 1, H0427: 1, H0156: 1, H0253: 1, H0046: 1, L0471: 1, H0051: 1, S0388: 1, H0687: 1, S0250: 1, H0252: 1, L0142: 1, H0551: 1, H0100: 1, S0210: 1, H0529: 1, L0772: 1, L0800: 1, L0374: 1, L0764: 1, L0662: 1, L0794: 1, L0804: 1, L0629: 1, L0657: 1, L0790: 1, L0791: 1, L0664: 1, H0144: 1	12q12-q13	10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153

1061	HPDE28	877640	1071	290 - 370	3668		1, S0310: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, H0682: 1, H0435: 1, H0658: 1, L0746: 1, L0731: 1, L0757: 1, L0758: 1, L0759: 1 and S0436: 1.		
1062	HPDJ11	827289	1072	113 - 145	3669		L0766: 3, L0756: 2, H0051: 1, S0210: 1, H0529: 1, L0809: 1, H0539: 1, H0521: 1, L0779: 1, S0031: 1 and H0506: 1.		
							L0754: 21, H0553: 10, H0574: 6, L0771: 5, L0598: 4, L0659: 4, L0663: 4, L0745: 4, L0731: 4, L0599: 4, S0376: 3, S0414: 3, H0328: 3, L0776: 3, L0439: 3, L0756: 3, H0624: 2, S0358: 2, S0444: 2, L0717: 2, H0596: 2, H0687: 2, H0615: 2, L0646: 2, L0662: 2, L0803: 2, L0774: 2, H0144: 2, L0438: 2, H0670: 2, S0330: 2, H0521: 2, H0478: 2, L0779: 2, L0777: 2, L0755: 2, S0260: 2, L0593: 2, S0452: 2, H0171: 1, S0402: 1, H0583: 1, H0650: 1, H0341: 1, S0282: 1, H0638: 1, S0442: 1, S0360: 1, S0132: 1, H0497: 1, H0632: 1, H0156: 1, H0575: 1, L0105: 1, H0052: 1, H0251: 1, H0545: 1, L0471: 1, H0012: 1, H0051: 1, H0510: 1, H0375: 1, H0267: 1, S0003: 1, S0214: 1, H0622: 1, H0124: 1, H0090: 1, H0591: 1, H0038: 1, H0616: 1, H0551: 1, T0067: 1, H0413: 1, L0065: 1, S0422: 1, S0002: 1, UNKWN: 1, L0649: 1, L0378: 1, L0655: 1, L4669: 1, L0517: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, H0520: 1, H0519: 1, S0126: 1, H0684: 1.	13q12.2-q13.3	157900, 600631

									1, H0658: 1, H0666: 1, H0696: 1, L0746: 1, L0750: 1, L0786: 1, L0591: 1, L0485: 1, S0026: 1, S0192: 1, S0242: 1, H0677: 1 and H0506: 1.			
1063	HHPD86	731966	1073	350 - 445	3670	Tyr-3 to Asn-8.			H0009: 1 and H0051: 1.			
1064	HHPEA17	562773	1074	278 - 397	3671				H0051: 1			
1065	HHPEB61	658693	1075	56 - 184	3672				AR060: 3, AR316: 2, AR089: 2 S0010: 2, S0300: 1, T0003: 1, H0051: 1, T0010: 1, H0591: 1, L0438: 1, H0520: 1, L0439: 1, L0749: 1 and S0260: 1.			
1066	HHPP26	753269	1076	24 - 266	3673	Trp-46 to Pro-52, Val-67 to Gly-72.			AR089: 7, AR316: 6, AR060: 4 L0439: 4, L0750: 4, H0441: 3, H0486: 3, L0766: 3, L0752: 3, L0755: 3, H0624: 2, S0360: 2, H0327: 2, H0551: 2, L0771: 2, L0662: 2, L0794: 2, L0803: 2, L0804: 2, L0776: 2, L0791: 2, L0666: 2, S0406: 2, L0731: 2, L0758: 2, S0194: 2, H0170: 1, H0583: 1, H0411: 1, S0010: 1, L0163: 1, H0051: 1, H0083: 1, H0625: 1, S0422: 1, L0649: 1, L0381: 1, L0650: 1, L0659: 1, L0518: 1, L0790: 1, L0793: 1, H0144: 1, H0547: 1, H0519: 1, H0659: 1, H0539: 1, S0380: 1, S0013: 1, H0704: 1, L0748: 1, L0747: 1, L0779: 1, L0777: 1, L0591: 1, L0608: 1 and H0422: 1.	14q22.1-q22.3		112262, 182600, 182870, 182870, 182870, 600225, 600225
1067	HHPFS11	570807	1077	125 - 238	3674	Gly-21 to Tyr-27, Trp-32 to Lys-37.			H0050: 1 and H0051: 1.			
1068	HHPFS15	847389	1078	139 - 231	3675				L0747: 21, L0758: 20, L0731: 10, L0748: 9, L0752: 9, S0440: 8, L0766: 7, L0740: 7	7		

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1069	HHPFS18	829347	1079	127 - 243	3676	<p>1, H0445: 1, S0434: 1, S0394: 1, L0592: 1, S0011: 1, H0667: 1, S0276: 1 and H0543: 1.</p> <p>AR215: 4, AR282: 4, AR169: 3, AR235: 2, AR222: 2, AR168: 2, AR176: 2, AR171: 2, AR216: 2, AR165: 1, AR199: 1, AR178: 1, AR205: 1, AR201: 1, AR264: 1, AR096: 1, AR287: 1, AR195: 1, AR311: 1</p> <p>L0794: 8, H0543: 7, H0555: 6, H0423: 6, H0641: 5, H0422: 5, H0581: 4, H0090: 4, L0747: 4, L0777: 4, H0657: 3, S0442: 3, H0486: 3, H0622: 3, H0135: 3, L0665: 3, L0748: 3, L0756: 3, L0731: 3, L0759: 3, S0134: 2, H0255: 2, S0354: 2, S0360: 2, H0586: 2, H0575: 2, H0560: 2, L0764: 2, L0664: 2, S0052: 2, H0670: 2, H0672: 2, H0521: 2, S0406: 2, H0552: 2, L0439: 2, L0740: 2, S0434: 2, L0599: 2, H0506: 2, H0624: 1, H0171: 1, H0395: 1, T0002: 1, H0222: 1, S0342: 1, H0650: 1, S0298: 1, H0662: 1, H0638: 1, S0410: 1, S0046: 1, H0370: 1, H0497: 1, S0280: 1, L0021: 1, H0706: 1, H0036: 1, H0253: 1, H0705: 1, H0318: 1, H0150: 1, H0024: 1, H0051: 1, S0051: 1, H0071: 1, H0179: 1, H0271: 1, H0687: 1, H0039: 1, H0617: 1, H0040: 1, H0412: 1, H0059: 1, H0022: 1, H0494: 1, H0625: 1, H0647: 1, H0646: 1, L0763: 1, L0761: 1.</p>		
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1070	HHPGH34	535780	1080	219 - 236	3677				H0051: 1 and H0428: 1.			
1071	HHPGU74	821486	1081	77 - 310	3678		Thr-34 to Gln-40, Asp-69 to Gly-76.		H0051: 1			
1072	HHPGU87	658694	1082	242 - 328	3679		Met-1 to Arg-9.		L0747: 6, L0766: 5, L0439: 5, S0410: 4, L0749: 4, L0758: 4, S0408: 3, L0662: 3, L0803: 3, L0750: 3, L0756: 3, L0777: 3, S0116: 2, S0444: 2, L0598: 2, L0763: 2, L0521: 2, L0804: 2, L0774: 2, L0775: 2, L0659: 2, S0374: 2, H0670: 2, L0743: 2, L0731: 2, S0212: 1, S0418: 1, S0354: 1, H0580: 1, S0476: 1, S6014: 1, H0441: 1, T0039: 1, H0581: 1, H0309: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0375: 1, S0003: 1, L0483: 1, H0031: 1, L0142: 1, H0040: 1, H0412: 1, H0529: 1, L0761: 1, L0373: 1, L0372: 1, L0773: 1, L0375: 1, L0657: 1, L0809: 1, L0666: 1, L0438: 1, H0658: 1, H0521: 1, S0028: 1, L0744: 1, L0755: 1, L0608: 1, L0366: 1 and S0196: 1.	15		
1073	HHPSD42	600317	1083	79 - 183	3680				AR060: 5, AR316: 3, AR089: 2 H0201: 2 and S0428: 1.			
1074	HHPSE03	580839	1084	86 - 286	3681				H0201: 1			

1075	HHPSE55	735562	1085	122 - 223	3682		S0360: 3, L0779: 3, H0341: 2, H0619: 2, S0010: 2, H0052: 2, L0771: 2, L0754: 2, H0170: 1, S0040: 1, L0005: 1, S0358: 1, S0346: 1, H0545: 1, H0201: 1, S0364: 1, T0042: 1, L0640: 1, L0770: 1, L0796: 1, L0772: 1, L0645: 1, L0662: 1, L0774: 1, L0776: 1, L0659: 1, L0783: 1, L0528: 1, L0530: 1, L0664: 1, H0693: 1, L0748: 1, L0752: 1, L0758: 1, S0026: 1 and H0136: 1.		
1076	HHPSF70	709665	1086	465 - 569	3683		AR060: 20, AR316: 14, AR089: 8 L0745: 7, L0756: 7, L0598: 6, S0346: 4, S0036: 4, L0777: 4, L0731: 4, S0010: 3, S0051: 3, L0770: 3, L0803: 3, L0438: 3, L0758: 3, S0031: 3, H0170: 2, H0438: 2, T0010: 2, H0687: 2, H0038: 2, H0616: 2, L0351: 2, L0769: 2, L0794: 2, L0806: 2, L0790: 2, H0660: 2, L0439: 2, L0751: 2, L0754: 2, L0366: 2, S0300: 1, H0351: 1, T0048: 1, S0049: 1, H0052: 1, H0194: 1, H0009: 1, H0565: 1, H0051: 1, H0201: 1, S0388: 1, H0083: 1, H0510: 1, H0428: 1, S0039: 1, H0561: 1, L0369: 1, L0520: 1, L0371: 1, L0638: 1, L0637: 1, L0662: 1, L0774: 1, L0635: 1, L0809: 1, L0666: 1, L0663: 1, H0659: 1, H0648: 1, H0651: 1, S0330: 1, L0748: 1, L0740: 1, L0780: 1, L0752: 1, L0753: 1, L0759: 1, S0260: 1 and L0589: 1.		
1077	HHPSH74	638185	1087	167 - 256	3684		L0777: 6, H0090: 4, L0770: L0589: 1.	Xp11.23	300047, 300071,



1078	HHPSL14	847390	1088	65 - 184	3685			4, L0519: 4, L0743: 4, L0439: 4, L0748: 3, L0758: 3, L0581: 3, H0556: 2, S0049: 2, H0428: 2, H0102: 2, L0766: 2, L0774: 2, L0438: 2, L0485: 2, H0295: 1, H0650: 1, H0661: 1, H0662: 1, S0360: 1, H0580: 1, S0140: 1, H0261: 1, S0220: 1, H0497: 1, H0333: 1, H0486: 1, H0597: 1, H0024: 1, H0201: 1, H0031: 1, H0553: 1, H0068: 1, H0135: 1, H0616: 1, H0264: 1, S0038: 1, H0100: 1, T0041: 1, H0561: 1, S0464: 1, H0633: 1, S0144: 1, S0002: 1, L0369: 1, L0763: 1, L0769: 1, L0638: 1, L0641: 1, L0794: 1, L0649: 1, L0666: 1, L0665: 1, H0144: 1, H0702: 1, L0352: 1, H0547: 1, H0670: 1, H0521: 1, H0555: 1, H0436: 1, L0751: 1, L0747: 1, L0749: 1, L0752: 1, L0755: 1, L0731: 1 and L0594: 1. AR060: 7, AR316: 5, AR089: 3 H0046: 26, S0434: 17, L0740: 15, L0752: 15, S0126: 14, S0360: 12, H0521: 11, S0406: 9, L0751: 9, S0344: 8, L0766: 8, L0754: 8, L0777: 8, S0358: 7, H0545: 7, H0039: 7, L0659: 7, L0747: 7, L0755: 7, L0758: 7, H0542: 7, H0255: 6, H0052: 6, H0014: 6, H0616: 6, L0776: 6, L0748: 6, L0757: 6, H0717: 5, H0156: 5, H0599: 5, H0024: 5, S0144: 5, L0769: 5, L0775: 5, L0809: 5, L0666: 5, L0665: 5, H0539: 5, L0439: 5, L0749: 5, L0731: 5, L0759: 5.	300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
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1079	HHPMS40	822904	1089	23 - 115	3686			H0201: 1			
1080	HHPTF26	837654	1090	248 - 364	3687			H0124: 1, H0100: 1 and S0112: 1.			
1081	HHSAD31	609874	1091	333 - 353	3688			H0538: 2, S0114: 1, S0051: 1, H0166: 1 and H0521: 1.			
1082	HHSAG62	839473	1092	151 - 219	3689			S0051: 1			
1083		847392	1093	78 - 164	3690		Pro-1 to Val-7, Cys-20 to Pro-27.	L0752: 5, L0157: 4, L0659: 4, L0666: 4, H0333: 3, H0253: 3, H0050: 3, L0766: 3, L0805: 3, L0809: 3, L0747: 3, L0755: 3, H0255: 2, S0354: 2, H0486: 2, H0615: 2, H0181: 2, L0769: 2, S0380: 2, L0743: 2, L0748: 2, L0777: 2, L0581: 2, H0624: 1, S0114: 1, H0669: 1, H0662: 1, S0468: 1, H0619: 1, H0645: 1, H0550: 1, S0222: 1, S0005: 1, H0574: 1, H0618: 1, H0196: 1, H0457: 1, H0081: 1, S0051: 1, H0594: 1, H0188: 1, T0023: 1, H0553: 1, H0644: 1, H0264: 1, H0494: 1, S0422: 1, S0002: 1, L0639: 1, L0637: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0803: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0789: 1, L0664: 1, H0690: 1, H0539: 1, H0521: 1, H0522: 1, L0749: 1, L0756: 1, L0779: 1, L0758: 1, S0194: 1 and H0543: 1.			
1084	HHSAG17	566827	1094	161 - 211	3691		Gly-2 to Ser-10.	AR089: 19, AR316: 16, AR060: 13 S0051: 1			

1085	HHSEBJ92	838604	1095	310 - 534	3692	Pro-49 to Pro-54.	L0805: 6, H0181: 3, L0803: 3, S0360: 2, L0651: 2, H0521: 2, H0556: 1, S0418: 1, H0550: 1, S0222: 1, H0611: 1, H0318: 1, S0474: 1, H0046: 1, L0157: 1, H0564: 1, H0012: 1, S0051: 1, H0179: 1, H0604: 1, H0553: 1, H0182: 1, H0617: 1, S0036: 1, H0090: 1, H0494: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0788: 1, L0664: 1, H0593: 1, H0670: 1, H0539: 1, L0741: 1, L0439: 1, L0747: 1, L0777: 1, L0780: 1, S0031: 1 and L0592: 1.	11	
1086	HHSEBN84	783070	1096	432 - 515	3693		AR089: 29, AR316: 24, AR060: 19 L0748: 13, L0754: 9, L0759: 7, L0439: 6, L0742: 5, L0749: 5, H0586: 4, L0747: 4, L0731: 4, H0556: 3, H0455: 3, H0038: 3, L0803: 3, L0805: 3, L0777: 3, S0418: 2, H0619: 2, S0222: 2, H0333: 2, H0156: 2, H0620: 2, H0266: 2, H0428: 2, L0769: 2, L0641: 2, L0775: 2, L0657: 2, L0532: 2, L0597: 2, H0170: 1, H0717: 1, L0415: 1, S0001: 1, S0300: 1, H0351: 1, H0331: 1, H0486: 1, H0013: 1, S0010: 1, S0346: 1, H0581: 1, S0049: 1, L0040: 1, H0046: 1, H0024: 1, S0050: 1, H0051: 1, S0051: 1, H0399: 1, S0628: 1, S0003: 1, S0214: 1, H0252: 1, H0328: 1, H0031: 1, H0553: 1, H0644: 1, S0036: 1, H0135: 1, H0488: 1, H0059: 1, T0042: 1, S0440: 1	5q31	121050, 131400, 138040, 153455, 159000, 179095, 181460, 192974, 192974, 600807, 601596, 601692, 601692, 601692, 601692, 602089, 602121, 602460

1087	HHSC24	815660	1097	275 - 352	3694			1, L0770: 1, L0800: 1, L0764: 1, L0771: 1, L0662: 1, L0551: 1, L0804: 1, L0806: 1, L0776: 1, L0659: 1, L0635: 1, L0783: 1, L0809: 1, L0530: 1, L0543: 1, L0787: 1, L0789: 1, L0793: 1, L0663: 1, L0665: 1, S0126: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, S0037: 1, S014: 1, L0741: 1, L0756: 1, L0757: 1, H0444: 1, L0596: 1, L0608: 1, L0603: 1, L0366: 1, S0194: 1 and S0021: 1.		
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1088	HHSCQ67	581061	1098	112 - 234	3695				L0763: 1, L0631: 1, L0646: 1, L0641: 1, L0643: 1, L0644: 1, L0764: 1, L0773: 1, L0364: 1, L0649: 1, L0653: 1, L0655: 1, L0658: 1, L0558: 1, L0518: 1, L0789: 1, L0663: 1, S0374: 1, L0438: 1, L0352: 1, H0711: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, H0521: 1, S0146: 1, H0555: 1, H0436: 1, H0626: 1, S0037: 1, S0027: 1, S0028: 1, L0742: 1, L0753: 1, H0343: 1, S0434: 1, L0587: 1, L0592: 1, H0668: 1, H0216: 1, S0196: 1, H0543: 1, H0423: 1 and S0462: 1.		
1089	HHSCU12	608277	1099	175 - 282	3696	Glu-31 to Lys-36.			AR060: 5, AR316: 4, AR089: 3 L0438: 11, L0439: 10, L0748: 5, S6024: 2, S0222: 2, H0013: 2, L0805: 2, L0776: 2, L0756: 2, L0731: 2, S0282: 1, S0376: 1, L0717: 1, H0351: 1, H0455: 1, S0010: 1, S0346: 1, S0049: 1, H0052: 1, H0251: 1, S0050: 1, S0388: 1, S0051: 1, T0010: 1, H0328: 1, H0316: 1, L0770: 1, L0789: 1, H0547: 1, L0747: 1, S0260: 1 and L0604: 1. S0051: 2, L0769: 2, L0764: 2, S0052: 2, H0618: 1, H0263: 1, H0538: 1, L0805: 1, L0787: 1, L0792: 1, L0666: 1 and H0543: 1.		
1090	HHSD43	812510	1100	46 - 1347	3697	Asp-13 to His-23, Pro-33 to Ala-38, Lys-124 to Gln-131, Gln-148 to Asn-154, Tyr-160 to Ala-165,			L0438: 6, L0777: 6, L0804: 5, L0749: 5, S0003: 4, L0803: 4, L0805: 4, L0439: 4, L0752: 4, H0052: 3, L0794: 3, L0766: 3, H0547: 3, H0539: 3, L0747: 3.		

							Gly-182 to Glu-190, Thr-205 to Cys-224, Lys-248 to Phe-254, Phe-259 to Thr-267, His-272 to Arg-279.		3, L0731: 3, L0759: 3, H0556: 2, S0474: 2, H0494: 2, L0770: 2, L0667: 2, L0774: 2, L0793: 2, L0750: 2, L0755: 2, S0040: 1, H0657: 1, S0356: 1, S0360: 1, S0408: 1, S0045: 1, H0411: 1, S0280: 1, L0021: 1, H0599: 1, S0049: 1, H0085: 1, H0545: 1, S0051: 1, H0266: 1, H0031: 1, H0553: 1, H0032: 1, H0165: 1, L0456: 1, H0090: 1, H0040: 1, H0616: 1, H0551: 1, H0413: 1, T0041: 1, L0369: 1, L0638: 1, L0372: 1, L0662: 1, L0653: 1, L0776: 1, L0606: 1, L0809: 1, L0790: 1, L0664: 1, H0520: 1, S0126: 1, H0690: 1, H0660: 1, S0380: 1, H0522: 1, H0436: 1, H0626: 1, S0027: 1, L0596: 1, L0588: 1, L0581: 1, L0601: 1, S0424: 1 and S0458: 1.				
1091	HHSDL07	899430	1101	22 - 138	3698	Ala-23 to Gly-38.		AR060: 12, AR316: 11, AR089: 10 S0051: 1	16				
1092	HHSDX07	847393	1102	40 - 159	3699	Thr-26 to Gln-31.  •		L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1, H0328: 1, H0617: 1, H0040: 1, H0412:	1				

1093	HHSFF54	836149	1103	591 - 677	3700			1, H0494: 1, H0641: 1, L0761: 1, L0645: 1, L0773: 1, L0521: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0526: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0701: 1, L0352: 1, H0547: 1, H0658: 1, H0670: 1, H0648: 1, H0651: 1, H0436: 1, L0740: 1, L0754: 1, L0752: 1, L0757: 1, L0591: 1, L0592: 1 and H0293: 1.		
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1094	HHSG85	783832	1104	145 - 240	3701	Gly-18 to Cys-24.	1, S0440: 1, S0210: 1, S0002: 1, L0598: 1, L0638: 1, L0667: 1, L0772: 1, L0646: 1, L0643: 1, L0773: 1, L0626: 1, L0803: 1, L0806: 1, L0559: 1, L0789: 1, L0663: 1, S0374: 1, S0126: 1, S0122: 1, H0670: 1, S0380: 1, S0027: 1, S0206: 1, L0750: 1, L0756: 1, L0779: 1, H0343: 1, L0608: 1, S0026: 1, H0653: 1 and H0423: 1. L0439: 7, L0769: 5, L0659: 5, S0222: 4, H0051: 4, S0388: 4, S0051: 4, L0438: 4, H0327: 3, S0036: 3, L0775: 3, L0665: 3, L0741: 3, S0434: 3, S0282: 2, S0049: 2, L0175: 2, H0519: 2, H0690: 2, L0756: 2, S0624: 1, S0035: 1, H0208: 1, S0300: 1, H0549: 1, T0114: 1, H0052: 1, H0123: 1, L0471: 1, H0320: 1, H0014: 1, H0594: 1, H0428: 1, T0023: 1, H0598: 1, H0551: 1, S0112: 1, H0652: 1, L0520: 1, L0770: 1, L0639: 1, L0646: 1, L0662: 1, L0803: 1, L0804: 1, L0657: 1, H0547: 1, H0435: 1, H0672: 1, S0152: 1, S0404: 1, L0751: 1, L0747: 1, L0749: 1, L0786: 1, L0779: 1, L0758: 1 and S0031: 1. H0052: 3, S0412: 3, L0756: 2, L0005: 1, H0455: 1, H0051: 1, S0388: 1, L0521: 1, L0439: 1, L0755: 1 and S0260: 1. S0222: 1, S6014: 1, H0445: 1 and S0194: 1. L0748: 9, L0749: 8, L0758: 3, L0776: 2, L0754: 2, L0777: 2, H0402: 1, S0354: 1, S0358: 1	106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884
1095	HHGL84	801913	1105	847 - 900	3702			
1096	HHTLH79	754847	1106	55 - 207	3703			
1097	HIABC70	838605	1107	130 - 327	3704	Ala-36 to Ser-49, Ala-60 to Arg-65.		

1098	HIATG10	857608	1108	140 - 244	3705			1, S0360: 1, H0574: 1, H0575: 1, H0581: 1, H0597: 1, H0457: 1, H0071: 1, L0483: 1, H0068: 1, H0163: 1, H0641: 1, H0647: 1, S0002: 1, S0426: 1, L0773: 1, L0766: 1, L0649: 1, L0803: 1, L0375: 1, L0527: 1, L0790: 1, L0663: 1, L0665: 1, H0648: 1, H0651: 1, H0521: 1, L0743: 1 and L0744: 1.		
1099	HIBCO70	853360	1109	124 - 255	3706	Arg-24 to Ser-36, Pro-38 to Gln-43.		H0275: 1 and L0517: 1. AR266: 3, AR244: 3, AR271: 3, AR310: 3, AR282: 2, AR183: 2, AR206: 2, AR104: 2, AR269: 2, AR313: 2, AR277: 1, AR295: 1, AR273: 1, AR227: 1, AR175: 1 L0471: 2, H0622: 2, H0264: 2, L0803: 2, H0542: 2, H0411: 1, H0052: 1, T0010: 1, L0641: 1, L0643: 1, L0374: 1, L0662: 1, L0794: 1, L0766: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, H0547: 1, H0519: 1 and H0689: 1. L0439: 3, H0051: 2, L0766: 2, L0753: 2, H0170: 1, S0007: 1, L0021: 1, S0050: 1, T0010: 1, L0809: 1, L0747: 1 and L0756: 1.		
1100	HIBCR82	610016	1110	104 - 271	3707	Met-1 to Ile-7, Thr-41 to Ser-46, Asn-50 to Thr-55.				
1101	HIBDA41	603909	1111	47 - 121	3708			H0046: 55, L0748: 18, L0438: 8, L0731: 8, H0521: 7, H0305: 6, H0575: 6, H0620: 6, H0641: 6, L0595: 6, L0601: 6, H0556: 5, S0045: 5, H0550: 5, L0769: 5, L0751: 5, L0750: 5, L0593: 5, H0624: 4, H0012: 4, H0547: 4, H0650: 3, H0657: 3.		

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1102	HIBEC45	822854	1112	779 - 940	3709	Met-29 to Phe-40.	L0382: 1, L0666: 1, S0428: 1, H0689: 1, S0328: 1, S0330: 1, H0539: 1, H0555: 1, S0028: 1, S0206: 1, L0741: 1, L0756: 1, L0752: 1, L0753: 1, H0444: 1, H0423: 1, H0422: 1 and S0446: 1. L0740: 12, L0747: 12, L0749: 12, L0741: 8, L0439: 8, L0748: 7, H0556: 6, L0769: 6, L0438: 6, L0744: 6, L0757: 6, L0596: 6, L0591: 6, S0010: 5, T0010: 5, H0266: 5, L0637: 5, L0776: 5, H0351: 4, H0052: 4, L0770: 4, L0659: 4, H0144: 4, L0750: 4, H0445: 4, H0009: 3, H0688: 3, L0766: 3, L0774: 3, L0375: 3, L0651: 3, L0663: 3, H0520: 3, H0521: 3, L0751: 3, L0756: 3, L0731: 3, L0758: 3, L0366: 3, H0170: 2, S0040: 2, H0650: 2, H0657: 2, S0212: 2, H0662: 2, S0420: 2, S0408: 2, S0045: 2, H0600: 2, H0559: 2, H0150: 2, H0178: 2, H0123: 2, H0620: 2, H0124: 2, H0135: 2, L0638: 2, L5575: 2, L0662: 2, L0806: 2, L0542: 2, H0672: 2, H0539: 2, H0696: 2, S0146: 2, S0144: 2, L0742: 2, L0754: 2, L0581: 2, L0608: 2, L0594: 2, H0222: 1, S0218: 1, H0656: 1, L0785: 1, S0116: 1, H0255: 1, H0661: 1, S0418: 1, S0442: 1, S0358: 1, S0444: 1, H0619: 1, S0300: 1, S0278: 1, H0550: 1, S0222: 1, H0392: 1, H0455: 1, H0409: 1, H0586: 1, H0587: 1, H0497: 1, H0333: 1, H0643: 1, H0632: 1, H0490: 1, H0486: 1.		
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1103	HILBW03	841377	1113	331 - 438	3710			1, H0013: 1, T0082: 1, H0004: 1, H0274: 1, H0253: 1, H0390: 1, S0665: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, S0049: 1, H0041: 1, H0081: 1, H0012: 1, S0050: 1, H0015: 1, S6028: 1, H0188: 1, H0288: 1, T0006: 1, H0033: 1, H0604: 1, H0030: 1, L0455: 1, S0366: 1, H0616: 1, T0067: 1, H0412: 1, H0413: 1, H0059: 1, H0102: 1, S0112: 1, T0041: 1, H0560: 1, H0509: 1, H0647: 1, S0210: 1, L0763: 1, L0667: 1, L0373: 1, L0646: 1, L0374: 1, L0764: 1, L0767: 1, L0768: 1, L5568: 1, L0650: 1, L0775: 1, L0378: 1, L0653: 1, L0634: 1, L0540: 1, L0783: 1, L0809: 1, L0544: 1, L0666: 1, L0664: 1, L0665: 1, L0565: 1, H0547: 1, S0126: 1, H0690: 1, H0682: 1, H0660: 1, H0518: 1, S0404: 1, H0436: 1, S0037: 1, S0028: 1, L0752: 1, L0755: 1, L0759: 1, S0106: 1, S0026: 1, H0653: 1, H0136: 1, H0543: 1, S0424: 1, H0008: 1 and H0352: 1.		
								H0052: 5, S0358: 3, L0653: 2, T0002: 1, S0218: 1, S0116: 1, S0376: 1, H0580: 1, H0575: 1, S0010: 1, H0024: 1, S0003: 1, H0031: 1, H0623: 1, S0002: 1, L0768: 1, L0794: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0547: 1, H0660: 1, L0786: 1, L0753: 1 and H0506: 1.		
1104	HISAE16	845233	1114	73 - 108	3711			AR089: 14, AR316: 11, AR060: 8 H0539: 2		



1105	HISAG53	843902	1115	944 - 1030	3712		L0803: 8, L0774: 3, L0654: 3, L0747: 3, L0794: 2, H0539: 2, S0028: 2, L0581: 2, H0265: 1, H0657: 1, S0354: 1, S0045: 1, H0485: 1, H0069: 1, H0635: 1, H0618: 1, H0373: 1, H0163: 1, H0087: 1, H0551: 1, H0264: 1, H0561: 1, L0769: 1, L0638: 1, L0644: 1, L0764: 1, L0782: 1, L0382: 1, L0790: 1, L0665: 1, H0703: 1, H0519: 1, H0435: 1, H0521: 1, H0694: 1, H0555: 1, S0114: 1, L0743: 1, L0744: 1, L0748: 1, L0731: 1, H0445: 1, H0136: 1 and H0506: 1.	20q13.3	118504, 118504, 131242, 602235
1106	HISAN63	797658	1116	597 - 713	3713		AR089: 10, AR060: 9, AR316: 8 H0538: 1 and H0539: 1.		
1107	HISAT78	840961	1117	967 - 1167	3714	Pro-31 to Pro-37.	AR089: 4, AR316: 3, AR060: 3 L0747: 15, L0748: 11, L0749: 11, L0731: 10, L0754: 9, L0779: 7, L0777: 7, L0750: 6, H0556: 5, H0547: 5, L0759: 5, H0620: 4, H0135: 4, L0769: 4, L0766: 4, H0660: 4, L0757: 4, L0603: 4, L0803: 3, H0520: 3, L0758: 3, H0333: 2, H0156: 2, L0471: 2, L0761: 2, L0774: 2, L0776: 2, L0789: 2, H0521: 2, L0741: 2, L0744: 2, L0751: 2, L0745: 2, L0752: 2, L0596: 2, H0685: 1, H0483: 1, H0638: 1, S0358: 1, H0619: 1, L0717: 1, H0441: 1, H0013: 1, H0635: 1, H0052: 1, H0150: 1, H0041: 1, H0123: 1, H0081: 1, H0050: 1, H0024: 1, H0057: 1, H0099: 1, H0031: 1, H0673: 1, H0591: 1, H0087: 1, H0269: 1, H0059:	20p13-pl2.2	192340, 234200

1108	HISBA38	561711	1118	169 - 279	3715		1, L0065: 1, S0144: 1, L0770: 1, L0645: 1, L0771: 1, L0521: 1, L0662: 1, L0794: 1, L0807: 1, L0783: 1, L0809: 1, L0367: 1, L0788: 1, L0666: 1, H0144: 1, H0648: 1, H0539: 1, S0152: 1, H0522: 1, S0044: 1, S0146: 1, S0037: 1, L0756: 1, L0786: 1, L0780: 1, H0665: 1, H0542: 1, H0423: 1, H0422: 1, S0424: 1, H0506: 1 and H0293: 1.		
1109	HISBB66	839808	1119	1536 - 1613	3716		L0766: 3, H0318: 1 and H0539: 1. AR089: 5, AR316: 3, AR060: 1 L0794: 7, L0766: 6, L0748: 6, L0770: 5, L0747: 4, L0805: 3, L0740: 2, H0657: 1, S0418: 1, S0222: 1, H0004: 1, S0022: 1, H0673: 1, H0616: 1, S0422: 1, L0769: 1, L0761: 1, L0768: 1, L0803: 1, L0775: 1, L0655: 1, L0657: 1, L0659: 1, L0636: 1, L0809: 1, H0144: 1, H0539: 1, S0044: 1, S0406: 1, H0436: 1, H0478: 1, H0631: 1, S3012: 1, L0751: 1, L0754: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1, L0752: 1, H0445: 1 and S0026: 1.	7q22-qter	
1110	HISCJ20	531876	1120	257 - 370	3717		AR184: 6, AR251: 5, AR263: 5, AR183: 4, AR246: 4, AR182: 3, AR267: 3, AR299: 2, AR089: 2, AR282: 2, AR312: 2, AR186: 2, AR309: 2, AR289: 2, AR248: 2, AR286: 2, AR296: 2, AR243: 2, AR053: 2, AR310: 2,		

1111	HISCK41	581281	1121	82 - 183	3718			AR104: 2, AR294: 2, AR277: 2, AR298: 2, AR292: 2, AR293: 2, AR052: 1, AR185: 1, AR227: 1, AR290: 1, AR316: 1, AR253: 1, AR284: 1, AR270: 1, AR033: 1, AR237: 1, AR039: 1, AR229: 1, AR096: 1, AR313: 1, AR268: 1, AR238: 1, AR295: 1, AR269: 1 L0748: 4, L0438: 3, L0749: 3, H0650: 2, H0553: 2, H0090: 2, H0591: 2, L0766: 2, L0657: 2, L0744: 2, L0745: 2, L0759: 2, S0026: 2, S0040: 1, S0212: 1, S0420: 1, S0408: 1, H0574: 1, H0486: 1, H0013: 1, H0318: 1, L0471: 1, H0373: 1, H0428: 1, H0213: 1, H0038: 1, H0040: 1, H0488: 1, T0041: 1, S0002: 1, L0641: 1, L0776: 1, H0539: 1, H0696: 1, L0439: 1, L0752: 1, L0758: 1, H0445: 1, L0581: 1 and L0599: 1.		
1112	HISCO45	771682	1122	315 - 413	3719			H0539: 1 AR089: 9, AR316: 5, AR060: 1 L0777: 6, L0752: 6, L0764: 4, L0439: 4, L0455: 3, L0755: 3, S0040: 2, L0438: 2, H0539: 2, L0742: 2, L0748: 2, L0779: 2, S0260: 2, L0591: 2, S0282: 1, H0441: 1, H0486: 1, H0581: 1, S0051: 1, H0428: 1, H0169: 1, S0364: 1, H0591: 1, H0100: 1, S0142: 1, L0369: 1, L0763: 1, L0662: 1, L0378: 1, L0806: 1, L0776: 1, S0374: 1, S0126: 1	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

1113	HISEJ52	886777	1123	480 - 1697	3720	Ile-13 to Glu-33, Gln-47 to Lys-57, Gly-75 to Leu-81, Leu-151 to His-157, Lys-187 to Ser-192.	1, H0660: 1, H0521: 1, S0028: 1, L0746: 1, L0747: 1, L0780: 1, L0731: 1, L0758: 1, H0445: 1 and L0597: 1. AR229: 6, AR161: 5, AR162: 5, AR163: 5, AR313: 5, AR171: 5, AR223: 4, AR225: 4, AR215: 4, AR247: 4, AR096: 4, AR216: 4, AR309: 4, AR196: 4, AR183: 4, AR165: 4, AR164: 4, AR166: 4, AR228: 4, AR178: 4, AR297: 3, AR173: 3, AR275: 3, AR290: 3, AR269: 3, AR282: 3, AR300: 3, AR169: 3, AR296: 3, AR268: 3, AR175: 3, AR238: 3, AR287: 3, AR293: 3, AR200: 3, AR257: 3, AR291: 3, AR168: 3, AR172: 3, AR219: 3, AR214: 3, AR255: 3, AR240: 3, AR267: 3, AR285: 3, AR182: 2, AR277: 2, AR234: 2, AR174: 2, AR295: 2, AR264: 2, AR179: 2, AR270: 2, AR289: 2, AR203: 2, AR262: 2, AR181: 2, AR189: 2, AR237: 2, AR222: 2, AR246: 2, AR188: 2, AR299: 2, AR294: 2, AR089: 2, AR217: 2, AR233: 2, AR258: 2, AR185: 2, AR286: 2, AR236: 2, AR193: 2,		
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1114	HJABC58	838606	2604	369 - 1319	5201	Ile-13 to Glu-33, Gln-47 to Lys-57, Gly-75 to Leu-81, Leu-151 to His-157, Lys-187 to Ser-192.			H0591: 2, L0759: 2, S0134: 1, H0676: 1, H0549: 1, H0600: 1, H0013: 1, H0581: 1, H0052: 1, S0388: 1, H0271: 1, H0644: 1, H0634: 1, T0041: 1, L0803: 1, L0666: 1, H0701: 1, H0521: 1, L0744: 1, L0748: 1, L0439: 1, L0755: 1, L0591: 1, L0599: 1 and H0543: 1. H0179: 1 and T0041: 1. L0759: 2, H0264: 1 and T0041: 1.		
1115	HJABG59	855949	1125	311 - 355	3722						
1116	HJABR75	825608	1126	324 - 437	3723	Met-19 to Asp-26.					
1117	HJABS31	825607	1127	1 - 1230	3724					13q12.2	157900

1118	HJABT12	602861	1128	30 - 143	3725	Arg-22 to Tyr-28.	3, S0040: 2, S0358: 2, H0013: 2, T0041: 2, S0150: 2, H0529: 2, L0439: 2, L0740: 2, L0756: 2, L0759: 2, H0542: 2, H0657: 1, H0656: 1, H0661: 1, S0356: 1, S0444: 1, S0360: 1, S0046: 1, H0036: 1, H0581: 1, S0049: 1, H0596: 1, T0110: 1, L0471: 1, H0375: 1, H0622: 1, H0553: 1, H0032: 1, H0316: 1, H0641: 1, S0422: 1, L0794: 1, L0803: 1, L0804: 1, L0659: 1, L0792: 1, L0663: 1, L0664: 1, S0052: 1, H0547: 1, H0519: 1, S0126: 1, H0660: 1, H0666: 1, H0521: 1, H0436: 1, H0478: 1, L0754: 1, L0591: 1 and S0026: 1. L0519: 3, L0731: 2, S0010: 1, T0041: 1, L0773: 1, L0766: 1, L0809: 1, H0682: 1 and S0404: 1.		
1119	HJACE25	835517	1129	322 - 402	3726		AR235: 69, AR196: 67, AR297: 65, AR288: 64, AR230: 63, AR283: 62, AR296: 61, AR295: 59, AR228: 59, AR197: 59, AR104: 56, AR287: 56, AR286: 56, AR199: 56, AR293: 54, AR233: 54, AR289: 53, AR227: 53, AR261: 52, AR260: 52, AR185: 51, AR291: 51, AR195: 51, AR238: 50, AR237: 50, AR061: 50, AR243: 49, AR254: 49, AR229: 49, AR294: 49, AR252: 48, AR234: 48, AR311: 47, AR253: 47, AR266: 47, AR246: 46, AR256: 45, AR188: 45,		

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1120	HJACK21	664506	1130	139 - 246	3727		L0748: 4, H0673: 3, L0803: 2, L0749: 2, L0756: 2, L0759: 2, S0358: 1, H0608: 1, H0643: 1, H0156: 1, T0082: 1, H0581: 1, H0597: 1, H0428: 1, H0598: 1, H0135: 1, H0063: 1, H0059: 1, T0041: 1, S0142: 1, S0002: 1, L0763: 1, L0646: 1, L0764: 1, L0774: 1, L0378: 1, L0792: 1, H0539: 1, L0779: 1, L0755: 1, S0031: 1, L0485: 1, L0599: 1, S0192: 1, S0276: 1 and H0543: 1.	1		
1121	HJBCG74	839361	1131	33 - 707	3728	Glu-34 to Val-39, Phe-47 to Asp-55, Glu-65 to Leu-73, His-89 to Thr-95, Arg-112 to Ala-119, Lys-149 to Arg-155, Ser-170 to Gly-178, Pro-193 to Ser-200, Arg-207 to Gln-212.	AR089: 24, AR316: 21, AR060: 18 L0803: 5, H0553: 4, L0438: 3, L0439: 3, H0013: 2, L0771: 2, H0521: 2, L0601: 2, S0282: 1, S0046: 1, L0717: 1, T0040: 1, H0575: 1, H0046: 1, H0615: 1, H0616: 1, T0042: 1, H0494: 1, S0438: 1, S0422: 1, L0598: 1, H0529: 1, L0800: 1, L0662: 1, L0381: 1, L0776: 1, L0659: 1, L0789: 1, H0144: 1, H0648: 1, H0539: 1, S0152: 1, L0740: 1, L0754: 1, L0752: 1, L0757:	10q23	174900, 236730, 601493	



1122	HJBCO21	695727	1132	289 - 324	3729		1 and H0423: 1. AR089: 26, AR316: 23, AR060: 20 L0769: 5, L0776: 5, L0596: 4, H0657: 3, H0341: 3, S0372: 3, S0126: 3, H0648: 3, L0748: 3, H0445: 3, S0360: 2, T0039: 2, T0042: 2, L0762: 2, L0628: 2, L0809: 2, S0374: 2, H0593: 2, H0672: 2, S0380: 2, S0134: 1, H0656: 1, H0483: 1, H0661: 1, H0664: 1, S0358: 1, S0376: 1, H0637: 1, S0046: 1, S0278: 1, S0222: 1, L0623: 1, H0486: 1, T0109: 1, T0048: 1, S0182: 1, H0327: 1, H0546: 1, H0086: 1, H0123: 1, L0182: 1, S0214: 1, H0622: 1, H0617: 1, H0674: 1, H0494: 1, L0475: 1, S0016: 1, S0382: 1, S0150: 1, H0633: 1, S0142: 1, S0210: 1, L0770: 1, L0761: 1, L0374: 1, L0764: 1, L0521: 1, L0767: 1, L0387: 1, L0381: 1, L0499: 1, L0774: 1, L0806: 1, L0655: 1, L0379: 1, L0783: 1, L0384: 1, S0122: 1, H0689: 1, H0659: 1, H0670: 1, H0660: 1, S0328: 1, S0136: 1, H0576: 1, S0312: 1, L0749: 1, L0780: 1, L0755: 1, L0757: 1, S0026: 1, S0196: 1, H0543: 1 and H0422: 1. T0042: 1	Xp11.23-pl1.22	300008, 300008, 300008, 300008, 300047, 300071, 300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
1123	HJBCQ40	831119	1133	161 - 316	3730			2q31	100690, 120180, 120180, 120180, 120180, 120190, 142989, 156232, 178600, 266100, 600258, 600321
1124	HJBDM36	773168	1134	1954 - 2076	3731		AR089: 8, AR316: 8, AR060: 7	6	

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1125	HJMAF30	638188	1135	193 - 297	3732	Pro-19 to Lys-25.	1, L0382: 1, L5623: 1, L0788: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, H0547: 1, H0435: 1, H0670: 1, H0522: 1, S0406: 1, H0555: 1, S012: 1, L0754: 1, L0745: 1, L0780: 1, L0755: 1, H0445: 1, L0485: 1, L0593: 1, L0601: 1, L0366: 1, H0667: 1, S0242: 1, S0194: 1, H0542: 1 and H0543: 1. S0114: 1, S0356: 1, H0318: 1, H0545: 1, L0041: 1, H0510: 1, H0622: 1, H0124: 1, H0269: 1, H0412: 1, L0766: 1, L0775: 1, H0539: 1, L0731: 1 and L0758: 1.	12		
1126	HJMAM72	638189	1136	300 - 377	3733		L0779: 5, L0438: 4, H0624: 3, L0034: 3, L0803: 3, S0358: 2, S0376: 2, H0641: 2, L0666: 2, L0749: 2, L0756: 2, L0757: 2, L0758: 2, S0001: 1, H0411: 1, H0427: 1, L0109: 1, H0545: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, H0040: 1, H0616: 1, L0371: 1, L0662: 1, L0766: 1, L0376: 1, L0659: 1, S0428: 1, H0144: 1, H0658: 1, S0328: 1, L0748: 1, L0439: 1, L0777: 1, L0753: 1, L0755: 1, L0485: 1 and H0665: 1.			
1127	HJMAZ60	844796	1137	1441 - 1578	3734	Pro-27 to Lys-34.	AR089: 14, AR316: 9, AR060: 3 L0754: 12, S0360: 8, S0358: 6, H0046: 6, S0152: 6, H0100: 5, L0751: 5, L0777: 5, L0601: 5, H0052: 4, L0740: 4, S0444: 3, S0408: 3, H0051: 3, H0266: 3, L0526: 3, S0374: 3, L0779: 3, H0265: 2, H0556: 2, H0341: 2, H0661: 2, H0619: 2, H0050:			

1128	HJMBB20	824264	1138	1376 - 1486	3735				2, H0083: 2, H0622: 2, H0617: 2, H0673: 2, T0042: 2, H0529: 2, L0763: 2, L0770: 2, L0772: 2, L0373: 2, L0374: 2, L0771: 2, L0662: 2, L0768: 2, L0809: 2, L0793: 2, H0547: 2, S0126: 2, H0435: 2, H0658: 2, S0332: 2, S0027: 2, L0748: 2, L0750: 2, L0756: 2, L0755: 2, L0758: 2, L0589: 2, L0591: 2, L0603: 2, H0656: 1, S0282: 1, H0484: 1, H0638: 1, S0356: 1, S0442: 1, H0580: 1, S0140: 1, S0222: 1, S0005: 1, H0574: 1, H0253: 1, H0390: 1, H0421: 1, H0085: 1, H0263: 1, T0110: 1, H0597: 1, H0545: 1, H0009: 1, H0012: 1, H0057: 1, H0267: 1, H0179: 1, H0188: 1, H0290: 1, H0252: 1, H0328: 1, H0424: 1, H0213: 1, H0031: 1, H0553: 1, H0032: 1, H0674: 1, H0361: 1, H0135: 1, H0038: 1, H0551: 1, H0264: 1, H0059: 1, H0494: 1, H0561: 1, S0142: 1, S0344: 1, S0210: 1, S0002: 1, L0769: 1, L0644: 1, L0773: 1, L0767: 1, L0766: 1, L0776: 1, L0542: 1, L0783: 1, L0382: 1, L0530: 1, L0367: 1, L0790: 1, L4559: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, H0666: 1, H0696: 1, S0406: 1, H0436: 1, L0747: 1, L0749: 1, L0757: 1, H0445: 1, H0707: 1, L0596: 1, L0593: 1, S0011: 1, H0668: 1, H0542: 1, H0423: 1, H0422: 1, S0456: 1 and H0352: 1.		2q32-q34	100690, 100730,
									L0766: 14, H0423: 9, L0659: H0352: 1.			

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1129	HIMBB20	842673	1139	2308 - 2418	3736		<p>L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3, H0457: 3, L0471: 3, S0422: 3, H0422: 3, H0686: 2, S0212: 2, L0717: 2, H0052: 2, H0046: 2, H0591: 2, H0551: 2, L0646: 2, L0662: 2, L0803: 2, S0126: 2, L0755: 2, L0588: 2, L0599: 2, L0595: 2, H0171: 1, H0222: 1, S0114: 1, H0583: 1, S0180: 1, H0662: 1, H0228: 1, H0638: 1, S0360: 1, H0580: 1, H0329: 1, S0046: 1, H0586: 1, H0587: 1, H0497: 1, H0250: 1, H0156: 1, H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0309: 1, H0545: 1, H0050: 1, H0023: 1, H0267: 1, H0271: 1, S0214: 1, H0328: 1, T0023: 1, H0031: 1, H0628: 1, L0455: 1, S0036: 1, H0163: 1, H0090: 1, H0634: 1, T0067: 1, H0268: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, H0560: 1, S0464: 1, L0065: 1, H0646: 1, H0529: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242: 1, S0276: 1, H0543: 1, S0424: 1</p>	2q32-q34	<p>100690, 100730, 118800, 123660, 135600, 142989, 156232, 157655, 178600, 186860, 201460, 205100, 262000, 278250, 600258, 601277, 601318</p>
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1130	HJMBB20	844890	1140	2308 - 2418	3737		1 and S0452: 1. L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3, H0457: 3, L0471: 3, S0422: 3, H0422: 3, H0686: 2, S0212: 2, L0717: 2, H0052: 2, H0046: 2, H0591: 2, H0551: 2, L0646: 2, L0662: 2, L0803: 2, S0126: 2, L0755: 2, L0588: 2, L0599: 2, L0595: 2, H0171: 1, H0222: 1, S0114: 1, H0583: 1, S0180: 1, H0662: 1, H0228: 1, H0638: 1, S0360: 1, H0580: 1, H0329: 1, S0046: 1, H0586: 1, H0587: 1, H0497: 1, H0250: 1, H0156: 1, H0318: 1, S0474: 1, H0581: 1, H0421: 1, H0309: 1, H0545: 1, H0050: 1, H0023: 1, H0267: 1, H0271: 1, S0214: 1, H0328: 1, T0023: 1, H0031: 1, H0628: 1, L0455: 1, S0036: 1, H0163: 1, H0090: 1, H0634: 1, T0067: 1, H0268: 1, H0412: 1, H0413: 1, H0623: 1, T0041: 1, H0560: 1, S0464: 1, L0065: 1, H0646: 1, H0529: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242: 1.	2q32-q34	100690, 100730, 118800, 123660, 135600, 142989, 156232, 157655, 178600, 186860, 201460, 205100, 262000, 278250, 600258, 601277, 601318
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1131	HJMBK59	664490	1141	42 - 254	3738	Pro-26 to Val-36, Ser-46 to Arg-52, Pro-58 to Ser-63.	1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1. S0007: 9, L0731: 7, L0748: 6, L0759: 6, L0769: 5, L0766: 5, L0747: 5, L0750: 5, L0758: 4, H0438: 3, L0764: 3, L0755: 3, H0352: 3, S0046: 2, H0550: 2, S0010: 2, H0581: 2, H0014: 2, L0455: 2, H0124: 2, H0413: 2, S0144: 2, L0774: 2, L0775: 2, L0382: 2, S0126: 2, L0742: 2, L0757: 2, L0588: 2, L0485: 2, L0604: 2, L0362: 2, S0114: 1, H0484: 1, H0254: 1, S0420: 1, S0358: 1, H0580: 1, S0132: 1, H0549: 1, S0222: 1, H0370: 1, H0196: 1, H0052: 1, H0597: 1, H0545: 1, H0563: 1, H0123: 1, H0083: 1, H0271: 1, H0417: 1, H0598: 1, H0135: 1, H0163: 1, H0038: 1, H0087: 1, T0041: 1, H0494: 1, L0475: 1, H0641: 1, L0770: 1, L0637: 1, L0772: 1, L0771: 1, L0521: 1, L0662: 1, L0626: 1, L0768: 1, L0806: 1, L0776: 1, L0659: 1, L0518: 1, L0384: 1, L0809: 1, L0530: 1, H0144: 1, H0703: 1, H0593: 1, H0659: 1, H0666: 1, H0648: 1, S0152: 1, H0555: 1, S0390: 1, S0032: 1, L0745: 1, L0752: 1, L0753: 1, H0445: 1, S0434: 1, L0592: 1, S0194: 1, S0276: 1, S0196: 1, H0543: 1, H0423: 1, S0460: 1 and H0293: 1.		
1132	HJMBP01	638190	1142	58 - 195	3739	Asn-11 to Ser-17.	L0747: 4, L0752: 3, L0754: 2, L0731: 2, H0156: 1, H0597: 1, H0545: 1, L0142: 1, H0272: 1, H0625: 1, L0774: 1, L0783: 1, L0757: 1 and S0106: 1.		



1133	HJMBQ17	840456	1143	145 - 234	3740		AR089: 45, AR316: 35, AR060: 25 L0659: 10, S0212: 9, L0755: 6, L0731: 6, H0599: 5, L0757: 5, L0775: 4, L0603: 4, H0713: 3, S0132: 3, H0427: 3, S0312: 3, H0622: 3, H0553: 3, H0628: 3, L5565: 3, L0439: 3, L0740: 3, S0040: 2, H0717: 2, H0587: 2, H0635: 2, T0010: 2, H0266: 2, S0314: 2, H0163: 2, L0804: 2, L0751: 2, L0747: 2, L0750: 2, H0668: 2, S0194: 2, H0716: 1, S0116: 1, H0661: 1, S0358: 1, S0360: 1, H0730: 1, H0728: 1, S0045: 1, S0046: 1, S0476: 1, H0456: 1, H0549: 1, H0431: 1, H0370: 1, H0592: 1, H0632: 1, L0623: 1, H0486: 1, L0021: 1, H0706: 1, H0590: 1, H0618: 1, H0705: 1, T0071: 1, S0049: 1, H0545: 1, H0086: 1, H0024: 1, N0007: 1, H0510: 1, H0594: 1, H0124: 1, H0551: 1, S0352: 1, S0438: 1, H0509: 1, H0647: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0773: 1, L0378: 1, L0661: 1, L0783: 1, L5622: 1, L0788: 1, H0144: 1, H0519: 1, H0555: 1, S0390: 1, S0028: 1, L0753: 1, L0758: 1, S0434: 1 and S0276: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
1134	HJMBW62	589962	1144	105 - 281	3741		AR244: 6, AR265: 5, AR241: 4, AR249: 4, AR277: 4, AR184: 3, AR183: 2, AR310: 2, AR267: 2, AR313: 2, AR295: 1, AR263: 1, AR266: 1, AR284: 1, AR204: 1, AR312: 1,		

1135	HJMBX54	621356	1145	81 - 182	3742			AR213: 1, AR298: 1, AR294: 1, AR182: 1, AR233: 1 H0545: 1			
1136	HJPAF69	589794	1146	25 - 126	3743			H0545: 1 and S0192: 1.			
1137	HJPAQ19	566832	1147	66 - 938	3744		Gln-17 to Leu-23. Arg-75 to Lys-82, Ser-98 to Asn-111, Leu-116 to Ser-138, Tyr-156 to Ala-175, Leu-184 to Ala-198, Thr-204 to Gln-211, Ser-227 to Arg-236, Asp-264 to Arg-290.	H0083: 1 L0005: 2, H0032: 2, L0766: 2, L0748: 2, L0777: 2, L0593: 2, L0361: 2, S0040: 1, H0650: 1, H0341: 1, H0663: 1, H0638: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, S0132: 1, H0409: 1, H0587: 1, H0642: 1, T0109: 1, H0013: 1, L0021: 1, S0010: 1, H0581: 1, H0546: 1, H0569: 1, L0471: 1, H0015: 1, H0083: 1, H0628: 1, H0212: 1, L0456: 1, H0090: 1, H0551: 1, H0264: 1, H0494: 1, L0763: 1, L0770: 1, L0774: 1, L0775: 1, L0784: 1, S0006: 1, H0520: 1, H0658: 1, H0670: 1, L0355: 1, H0555: 1, H0436: 1, S3012: 1, L0779: 1, L0755: 1, L0684: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1.	14		
1138	HJPAZ35	845379	1148	832 - 906	3745			AR218: 68, AR219: 68, AR274: 63, AR308: 50, AR312: 49, AR291: 48, AR247: 47, AR296: 45, AR174: 45, AR297: 45, AR309: 43, AR313: 43, AR270: 41, AR260: 40, AR269: 40, AR295: 40, AR289: 40, AR294: 39, AR096: 37, AR288: 37, AR285: 36, AR264: 36, AR258: 36, AR191: 35, AR188: 35, AR165: 35, AR256: 35, AR254: 35,	22q		

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1139	HJPBI77	602875	1149	68 - 145	3746				S0418: 1, S0222: 1, H0083: 1, S0250: 1, S0002: 1, L0761: 1, L0803: 1, L0792: 1, H0521: 1 and L0605: 1.						
1140	HJPBN96	610087	1150	70 - 291	3747				L0745: 27, H0584: 26, 1 and L0605: 1.	10pter-q26.12					

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1141	HJPBU47	824063	1151	370 - 537	3748	Ser-31 to Ser-36, Pro-39 to Ser-45.	<p>1, H0587: 1, H0497: 1, H0362: 1, H0333: 1, H0643: 1, H0486: 1, T0060: 1, T0109: 1, H0250: 1, S0280: 1, H0036: 1, S0182: 1, H0196: 1, H0310: 1, H0024: 1, H0014: 1, H0015: 1, H0051: 1, H0201: 1, S0051: 1, H0375: 1, S0318: 1, S0334: 1, S0336: 1, S0316: 1, H0687: 1, H0288: 1, H0286: 1, H0252: 1, T0023: 1, L0483: 1, H0213: 1, H0553: 1, H0617: 1, S0364: 1, L0455: 1, H0708: 1, H0040: 1, H0413: 1, H0059: 1, T0041: 1, H0429: 1, S0370: 1, S0306: 1, H0647: 1, S0426: 1, L0369: 1, L0639: 1, L5565: 1, L0667: 1, L0646: 1, L0764: 1, L0773: 1, L0363: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0652: 1, L0776: 1, L0636: 1, L0783: 1, L0383: 1, L0787: 1, S0428: 1, S0053: 1, H0701: 1, H0703: 1, H0520: 1, H0660: 1, H0672: 1, H0651: 1, S0378: 1, S0380: 1, H0518: 1, S0044: 1, H0134: 1, H0631: 1, S0390: 1, S0037: 1, S0027: 1, S0032: 1, L0740: 1, L0752: 1, L0755: 1, L0759: 1, S0434: 1, L0591: 1, H0653: 1, S0276: 1 and S0384: 1.</p> <p>L0751: 6, H0617: 4, L0769: 4, L0754: 4, H0556: 3, S0134: 3, H0083: 3, L0764: 3, L0657: 3, H0696: 3, L0777: 3, L0755: 3, L0758: 3, H0543: 3, S0356: 2, H0392: 2, H0581: 2, H0553: 2, H0494: 2, S0440: 2, L0521: 2, L0794: 2, L0775: 2, L0655: 2.</p>		
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1142	HJPCQ19	566853	1152	188 - 271	3749			2, L5623: 2, H0144: 2, H0682: 2, L0748: 2, L0750: 2, L0759: 2, H0265: 1, H0686: 1, H0713: 1, H0662: 1, H0402: 1, H0459: 1, S0418: 1, S0420: 1, S0442: 1, S0358: 1, S0444: 1, H0549: 1, H0257: 1, H0486: 1, L0021: 1, H0618: 1, H0253: 1, H0544: 1, L0157: 1, H0620: 1, S0051: 1, H0181: 1, H0163: 1, H0087: 1, H0412: 1, H0413: 1, H0056: 1, H0633: 1, H0529: 1, L3904: 1, L0761: 1, L0646: 1, L0800: 1, L0766: 1, L0649: 1, L0650: 1, L0809: 1, H0691: 1, H0689: 1, H0435: 1, H0666: 1, S0328: 1, S0330: 1, S0378: 1, S0380: 1, S0406: 1, L0779: 1, L0757: 1, H0595: 1, S0436: 1, H0352: 1 and H0712: 1.	5q35		123101, 164040, 208100, 246530
1143	HJPD108	561423	1153	134 - 235	3750		Tyr-28 to Ser-33.	AR060: 5, AR316: 4, AR089: 3 H0083: 1, S0036: 1, H0494: 1, L0766: 1, L0789: 1, S0330: 1 and L0779: 1.			
1144	HJPDK61	844034	1154	320 - 523	3751			AR060: 5, AR316: 4, AR089: 3 H0083: 1 L0794: 4, L0778: 1, T0048: 1, H0327: 1, H0012: 1, H0083: 1, H0038: 1, H0509: 1, L0770: 1, L0769: 1, L0659: 1, L0789: 1 and H0520: 1.	9		
1145	HKABI53	805966	1155	642 - 665	3752			AR089: 44, AR316: 43, AR060: 43 L0595: 6, L0748: 4, L0755: 4, L0581: 4, S0360: 3, S0408: 3, S0438: 3, L0758: 3, S0358: 2, S0444: 2, H0553: 2, H0616: 2, S0426: 2, L0764: 2, L0773: 2.	11		

1146	HKABN63	566840	1156	269 - 703	3753	His-69 to Tyr-80, Gln-131 to Glu-136.	2, L0774: 2, L0776: 2, L0783: 2, H0522: 2, L0749: 2, L0596: 2, L0588: 2, L0601: 2, S0116: 1, H0638: 1, S0376: 1, H0331: 1, H0486: 1, H0036: 1, S0346: 1, H0318: 1, S0474: 1, L0738: 1, H0544: 1, L0163: 1, H0266: 1, H0687: 1, H0644: 1, H0090: 1, H0038: 1, H0494: 1, S0440: 1, H0509: 1, H0633: 1, L0769: 1, L0363: 1, L0794: 1, L0766: 1, L0784: 1, L0809: 1, S0374: 1, H0658: 1, H0672: 1, S0380: 1, S0027: 1, L0754: 1, L0750: 1, L0777: 1, L0780: 1, L0752: 1, S0196: 1 and H0543: 1.		
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1147	HKACA25	824087	1157	213 - 269	3754		L0748: 13, L0666: 10, L0659: 8, S0474: 6, L0754: 6, L0595: 6, L0662: 5, L0803: 5, L0664: 5, S0436: 5, H0046: 4, H0644: 4, H0623: 4, L0774: 4, H0521: 4, H0556: 3, S0444: 3, S0046: 3, H0553: 3, H0494: 3, L0764: 3, L0747: 3, L0750: 3, L0752: 3, L0759: 3, L0603: 3, H0295: 2, H0294: 2, H0254: 2, S0442: 2, S0408: 2, S0045: 2, H0619: 2, H0393: 2, H0370: 2, H0590: 2, H0024: 2, H0622: 2, H0264: 2, S0144: 2, S0142: 2, S0344: 2, H0538: 2, S0002: 2,		

1148	HKACO64	897591	1158	290 - 580	3755	Cys-35 to Gln-56, Ser-79 to Ser-88.	L0763: 2, L0768: 2, L0783: 2, L0382: 2, L0809: 2, L0663: 2, S0374: 2, H0520: 2, H0547: 2, S0152: 2, L0743: 2, L0740: 2, L0749: 2, S0434: 2, L0596: 2, L0581: 2, L0593: 2, H0395: 1, H0713: 1, H0716: 1, T0049: 1, S0116: 1, H0255: 1, H0662: 1, H0638: 1, S0420: 1, S0356: 1, S0354: 1, S0358: 1, S0410: 1, H0580: 1, H0729: 1, S0132: 1, S0476: 1, S0278: 1, S6022: 1, H0586: 1, H0587: 1, H0331: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0123: 1, H0050: 1, S0051: 1, S0368: 1, H0031: 1, L0142: 1, H0617: 1, H0598: 1, H0634: 1, H0063: 1, H0268: 1, H0059: 1, H0100: 1, H0625: 1, H0396: 1, S0440: 1, H0509: 1, H0641: 1, H0647: 1, H0646: 1, H0649: 1, H0652: 1, S0422: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0648: 1, L0363: 1, L0766: 1, L0649: 1, L0389: 1, L0551: 1, L0375: 1, L0653: 1, L0655: 1, L0658: 1, L0634: 1, L0636: 1, L0517: 1, L0790: 1, L0665: 1, S0310: 1, H0519: 1, H0593: 1, H0689: 1, H0690: 1, H0658: 1, H0648: 1, S0328: 1, S0378: 1, H0518: 1, S0013: 1, S0044: 1, S0406: 1, H0436: 1, L0742: 1, L0779: 1, L0780: 1 and S0456: 1.					
1148	HKACO64	897591	1158	290 - 580	3755	Cys-35 to Gln-56, Ser-79 to Ser-88.	L0747: 27, L0752: 7, H0586: 6, H0494: 3, S0352: 3, H0592: 2, H0587: 2, L0764: 2, L0648: 2, L0775: 2, L0744: 2, L0751: 2, L0750: 2, S6024: 1, S0476:					

1149	HKACP50	828243	1159	530 - 577	3756			1, H0392: 1, H0600: 1, L0021: 1, H0150: 1, H0620: 1, H0024: 1, H0188: 1, H0604: 1, H0032: 1, H0087: 1, T0067: 1, H0379: 1, L0763: 1, L0794: 1, L0774: 1, L0657: 1, L0636: 1, L0809: 1, L5623: 1, L0666: 1, L0664: 1, L0665: 1, S0126: 1, H0689: 1, H0670: 1, S0406: 1, H0555: 1, L0779: 1, L0780: 1, L0758: 1 and S0192: 1.		
1150	HKACX90	604042	1160	146 - 220	3757	Glu-1 to Gly-11, Met-18 to Thr-24.		L0439: 7, L0777: 5, L0659: 2, L0438: 2, L0752: 2, H0717: 1, H0657: 1, H0619: 1, H0486: 1, H0156: 1, H0581: 1, H0032: 1, H0165: 1, H0494: 1, L0772: 1, L0803: 1, L0775: 1, L0779: 1, H0543: 1 and H0423: 1. AR089: 24, AR316: 19, AR060: 15 L0747: 6, L0649: 4, L0750: 4, H0657: 3, H0036: 3, L0764: 3, H0445: 3, H0656: 2, S0444: 2, H0580: 2, H0549: 2, L0775: 2, L0657: 2, L0518: 2, H0670: 2, S0380: 2, H0696: 2, H0436: 2, L0749: 2, L0777: 2, L0752: 2, L0758: 2, H0686: 1, S0116: 1, S0212: 1, H0254: 1, H0255: 1, S0442: 1, S0358: 1, S6022: 1, H0497: 1, H0333: 1, H0486: 1, H0421: 1, H0204: 1, H0081: 1, H0023: 1, H0687: 1, S0364: 1, H0059: 1, H0494: 1, H0646: 1, S0422: 1, S0002: 1, L0644: 1, L0768: 1, L0766: 1, L0533: 1, L0774: 1, L0806: 1, L0782: 1, L0809: 1, L0793: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, S0406: 1, L0757: 1, S0194: 1.		

1151	HKADI27	1028177	1161	125 - 568	3758	Phe-59 to Lys-77, Lys-84 to Ser-89, Trp-110 to Tyr-120.	1, S0424: 1, L0600: 1 and H0352: 1.  L0766: 3, L0748: 2, L0755: 2, H0098: 1, L0471: 1, H0083: 1, H0090: 1, H0038: 1, H0494: 1, H0560: 1, H0509: 1, L0772: 1, L0803: 1, H0520: 1, S0152: 1, H0521: 1, L0759: 1 and H0543: 1.		
1152	HKADN26	845987 802131	2605 1162	243 - 299 335 - 379	5202 3759	Ala-4 to Gly-10.	H0253: 7, L0794: 7, L0761: 5, L0758: 5, H0402: 4, S0002: 4, S0358: 3, H0586: 3, H0618: 3, H0457: 3, L0766: 3, L0774: 3, L0659: 3, L0666: 3, H0717: 2, H0484: 2, H0551: 2, L0770: 2, L5566: 2, L0764: 2, L0649: 2, L0793: 2, H0684: 2, H0670: 2, H0539: 2, H0696: 2, L0748: 2, L0779: 2, H0543: 2, H0306: 1, S0420: 1, L0617: 1, S0046: 1, H0261: 1, H0592: 1, H0485: 1, H0590: 1, T0048: 1, H0318: 1, H0421: 1, H0052: 1, H0530: 1, H0179: 1, H0188: 1, H0622: 1, H0617: 1, H0124: 1, H0135: 1, H0038: 1, H0264: 1, H0413: 1, H0623: 1, S0038: 1, L0351: 1, H0494: 1, H0561: 1, H0641: 1, S0422: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0800: 1, L0643: 1, L0644: 1, L0771: 1, L0662: 1, L0768: 1, L0386: 1, L0533: 1, L0806: 1, L0653: 1, L0657: 1, L0664: 1, H0691: 1, H0593: 1, H0518: 1, H0521: 1, S0404: 1, H0436: 1, L0743: 1, L0777: 1, S0436: 1, L0366: 1 and L0600: 1.  L0794: 6, L0752: 5, S0360:		
1153	HKADP79	754688	1163	462 - 572	3760				

1154	HKADT55	668243	1164	62 - 139	3761			2, L0764: 2, L0666: 2, L0740: 2, L0731: 2, L0757: 2, L0758: 2, S0420: 1, H0208: 1, S0476: 1, H0598: 1, H0412: 1, H0494: 1, H0646: 1, L0770: 1, L0761: 1, L0800: 1, L0662: 1, L0806: 1, L0776: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0658: 1 and H0521: 1.		
								S0418: 3, L0005: 3, H0521: 3, L0157: 2, S0022: 2, H0031: 2, H0616: 2, L0794: 2, H0547: 2, H0659: 2, L0731: 2, L0758: 2, L0759: 2, L0603: 2, H0170: 1, S0114: 1, H0638: 1, S0358: 1, S0376: 1, S0046: 1, L0717: 1, H0550: 1, H0431: 1, H0610: 1, H0013: 1, L0021: 1, H0599: 1, H0421: 1, H0052: 1, H0596: 1, H0046: 1, L0471: 1, H0620: 1, H0373: 1, H0428: 1, T0006: 1, H0424: 1, H0644: 1, S0036: 1, L0351: 1, H0494: 1, H0633: 1, S0002: 1, H0529: 1, L0638: 1, L0761: 1, L0641: 1, L0662: 1, L0653: 1, L0783: 1, L0664: 1, L0665: 1, H0520: 1, S0126: 1, H0682: 1, H0658: 1, H0670: 1, S0378: 1, H0518: 1, H0696: 1, H0436: 1, L0439: 1, L0747: 1, L0750: 1, L0786: 1, L0780: 1, L0755: 1, L0597: 1, L0589: 1, L0591: 1, L0599: 1, S0196: 1, H0543: 1, H0423: 1 and H0506: 1.		
1155	HKA EK58	695729	1165	154 - 1284	3762	Asn-4 to Phe-10, Phe-98 to Phe-107, Gly-170 to Gly-176, Gly-192 to Thr-205, Gln-303 to Asp-308.	AR089: 4, AR316: 3, AR060: 3 L0439: 8, L0748: 5, H0169: 3, L0766: 3, H0556: 2, S0442: 2, S0046: 2, H0024: 2, H0674:	11q25	602782	

1156	HKA EK72	840457	1166	78 - 602	3763	Pro-32 to Ser-39, Ser-45 to Asp-50, Glu-153 to Leu-159, Phe-166 to Phe-173.	2, H0494: 2, S0422: 2, L0770: 2, L0530: 2, H0547: 2, H0672: 2, H0478: 2, L0731: 2, S0436: 2, H0484: 1, S0418: 1, S0358: 1, H0580: 1, H0722: 1, H0733: 1, H0393: 1, H0261: 1, S0222: 1, H0586: 1, H0587: 1, T0112: 1, H0013: 1, H0156: 1, H0706: 1, S0010: 1, H0545: 1, H0050: 1, L0471: 1, H0014: 1, H0015: 1, H0356: 1, S0628: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, S0440: 1, S0144: 1, S0002: 1, L0598: 1, H0529: 1, L0771: 1, L0649: 1, L0774: 1, L0659: 1, L0384: 1, L0666: 1, L0663: 1, H0702: 1, H0519: 1, S0328: 1, H0521: 1, S0176: 1, S0027: 1, L0744: 1, L0740: 1, L0779: 1, L0777: 1, L0759: 1, H0444: 1, S0434: 1, L0366: 1, H0543: 1, H0422: 1 and H0506: 1. AR219: 21, AR218: 19, AR313: 14, AR270: 13, AR182: 13, AR229: 13, AR263: 11, AR281: 11, AR258: 11, AR183: 11, AR269: 10, AR238: 10, AR293: 10, AR184: 10, AR289: 10, AR296: 9, AR299: 9, AR268: 9, AR315: 9, AR295: 9, AR284: 9, AR285: 8, AR292: 8, AR267: 8, AR291: 8, AR265: 8, AR286: 8, AR280: 8, AR266: 8, AR294: 8, AR314: 8, AR096: 8, AR175: 8, AR290: 7, AR177: 7, AR226: 7,		
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1157	HKAFJ47	845521	1167	145 - 240	3764			AR248: 7, AR033: 7, AR231: 7, AR298: 7, AR247: 7, AR240: 6, AR234: 6, AR259: 6, AR251: 6, AR256: 6, AR237: 6, AR089: 6, AR233: 6, AR227: 6, AR316: 5, AR253: 5, AR232: 5, AR179: 5, AR300: 5, AR060: 4, AR283: 4, AR282: 4, AR310: 4, AR277: 3, AR249: 3, AR275: 3, AR185: 3, AR274: 2, AR312: 2, AR055: 2, AR061: 1 H0494: 1			
1158	HKAFQ41	847281	1168	487 - 666	3765	Val-5 to Ala-11, Pro-15 to Glu-34.		S0408: 4, L0770: 2, L0809: 2, H0170: 1, H0171: 1, H0583: 1, S0282: 1, H0662: 1, S0360: 1, H0411: 1, S0278: 1, H0586: 1, H0587: 1, H0331: 1, H0632: 1, H0486: 1, L0586: 1, H0036: 1, H0565: 1, H0051: 1, S0250: 1, H0039: 1, L0483: 1, H0316: 1, H0038: 1, H0059: 1, H0494: 1, S0208: 1, L0766: 1, L0551: 1, L0803: 1, L0804: 1, L0651: 1, L0655: 1, L0526: 1, L0783: 1, L0793: 1, H0659: 1, H0555: 1, L0740: 1, S0434: 1 and H0423: 1. S0414: 18, H0038: 8, L0758: 8, H0616: 6, L0771: 3, L0803: 3, S0036: 2, L0794: 2, L0740: 2, L0754: 2, L0756: 2, L0753: 2, L0596: 2, S0412: 2, S0376: 1, L0717: 1, H0574: 1, H0253: 1, H0050: 1, H0510: 1, H0266: 1, H0615: 1, L0055: 1, S0386:	20q13.3-qter		



1159	HKAHH71	846826	1169	462 - 608	3766	Phe-43 to Ser-48.	1, H0494: 1, H0647: 1, L0768: 1, L0766: 1, L0655: 1, L0527: 1, L0657: 1, L0659: 1, L0809: 1, L0791: 1, H0435: 1, S014: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1 and S0031: 1. AR089: 24, AR316: 19, AR060: 15 H0494: 2, L0769: 2, H0265: 1, H0486: 1, H0036: 1, H0263: 1, H0235: 1, H0356: 1, H0553: 1, H0551: 1, L0763: 1, L0761: 1, L0803: 1, L0809: 1, L0663: 1, H0547: 1, H0539: 1, H0518: 1 and L0731: 1.			
1160	HKAJA95	834557	1170	73 - 108	3767		AR060: 2, AR316: 1 H0171: 4, L0766: 4, L0748: 4, S0474: 3, H0263: 3, L0666: 3, L0779: 3, L0758: 3, S0360: 2, S0410: 2, H0013: 2, L0118: 2, H0628: 2, H0181: 2, L0773: 2, L0659: 2, L0663: 2, H0519: 2, L0754: 2, L0757: 2, S0434: 2, L0595: 2, H0556: 1, S0040: 1, S0218: 1, H0657: 1, S0418: 1, S0356: 1, S0358: 1, S0045: 1, L0717: 1, H0586: 1, H0587: 1, H0581: 1, H0052: 1, H0235: 1, H0046: 1, H0150: 1, H0050: 1, L0471: 1, H0024: 1, H0071: 1, H0083: 1, H0328: 1, H0615: 1, H0163: 1, H0040: 1, H0413: 1, L0351: 1, H0494: 1, S0142: 1, S0002: 1, H0529: 1, L0769: 1, L0639: 1, L0667: 1, L0373: 1, L0375: 1, L0806: 1, L0657: 1, L0809: 1, H0144: 1, H0659: 1, H0672: 1, S0328: 1, S0350: 1, H0696: 1, S0432: 1, L0747: 1, L0777: 1, L0752: 1, L0755: 1.			

1161	HKAKU90	838608	1171	1 - 1251	3768	Asn-1 to Val-8, Ser-16 to Ser-23, Pro-44 to Thr-53, Ala-87 to Pro-103, Ser-134 to Pro-147, Arg-205 to Gly-210, Asn-217 to Gly-222, His-240 to His-246, Gln-255 to Tyr-260, Asn-265 to Lys-274, Lys-277 to Val-283, Gln-313 to Ser-319, Met-347 to Ser-358, Gln-382 to Thr-396, Phe-406 to Ile-417.	1, L0605: 1, L0599: 1, S0194: 1, S0276: 1 and H0293: 1. AR089: 8, AR316: 7, AR060: 6 L0777: 11, L0749: 5, L0766: 3, L0809: 3, H0658: 3, L0748: 3, L0439: 3, L0755: 3, L0758: 3, L0717: 2, H0052: 2, H0615: 2, H0494: 2, L0771: 2, L0768: 2, L0775: 2, L0806: 2, L0666: 2, L0438: 2, L0747: 2, L0750: 2, L0753: 2, L0596: 2, L0599: 2, S0134: 1, H0657: 1, S0376: 1, S0444: 1, H0586: 1, H0486: 1, T0109: 1, S0010: 1, H0263: 1, H0150: 1, S0003: 1, S0036: 1, H0591: 1, L0351: 1, L0564: 1, H0625: 1, S0438: 1, H0641: 1, L0369: 1, L0763: 1, L0770: 1, L0772: 1, L0648: 1, L0662: 1, L0363: 1, L0774: 1, L0651: 1, L0657: 1, L0647: 1, L0788: 1, L0792: 1, L0664: 1, H0684: 1, H0670: 1, L0745: 1, L0779: 1, L0603: 1, S0026: 1, S0276: 1 and H0543: 1. H0204: 1	2pter-p25.1	
1162	HKCSZ54	600229	1172	33 - 149	3769			4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 252800, 600965
1163	HKFAA15	753275	1173	114 - 173	3770		L0748: 19, L0740: 5, S0360: 3, L0749: 3, L0485: 3, H0635: 2, H0647: 2, S0002: 2, L0775: 2, L0659: 2, H0521: 2, L0779: 2, H0624: 1, H0556: 1, L0005: 1, H0580: 1, S0045: 1, H0549: 1, T0039: 1, H0250: 1, H0590:		

1164	HKFBB08	826713	1174	142 - 234	3771			1, S0010: 1, L0105: 1, H0209: 1, H0123: 1, H0023: 1, S6028: 1, H0247: 1, S0214: 1, H0622: 1, L0483: 1, H0644: 1, H0591: 1, H0623: 1, T0042: 1, H0280: 1, H0561: 1, S0142: 1, S0426: 1, H0529: 1, L0536: 1, L0661: 1, L0517: 1, L0518: 1, L0792: 1, S0126: 1, H0672: 1, H0539: 1, S0146: 1, H0436: 1, L0743: 1, L0777: 1, L0757: 1, L0758: 1 and L0759: 1.	
1165	HKGAG59	741051	1175	290 - 385	3772	Lys-7 to Leu-15, Ser-24 to Lys-31.		H0429: 1 and H0521: 1. H0538: 1	
1166	HKGJ81	581063	1176	151 - 264	3773	Pro-29 to Asp-37.		H0538: 1	
1167	HKGAK45	809093	1177	762 - 896	3774	Asp-23 to Gly-33, Gln-39 to Thr-44.		H0124: 1, H0538: 1 and H0658: 1.	
1168	HKGAP04	846832	1178	213 - 314	3775			H0538: 1	
1169	HKGAP57	841627	1179	1155 - 1289	3776			AR089: 5, AR316: 3, AR060: 2 L0748: 2, S0114: 1 and H0538: 1.	
1170	HKGAW41	858745	1180	379 - 456	3777			H0538: 2	
1171	HKGBA21	822870	1181	109 - 225	3778	Ser-27 to His-38.		H0251: 2, S0040: 1, H0643: 1, H0013: 1, H0538: 1, L0776: 1 and H0519: 1.	
1172	HKGBC33	823368	1182	43 - 162	3779	Asn-20 to Ser-34.		H0538: 1 and H0445: 1.	
1173	HKGBC73	608169	1183	301 - 399	3780			H0538: 1	
1174	HKGBF61	658697	1184	225 - 302	3781			AR089: 5, AR316: 3, AR060: 2 H0538: 1	
1175	HKGBH54	588482	1185	351 - 488	3782			H0538: 1	
1176	HKGBP52	899282	1186	36 - 164	3783	Leu-31 to Lys-42.		L0754: 5, L0758: 4, L0804: 2, L0805: 2, L0748: 2, L0439: 2, L0740: 2, L0005: 1, S0356: 1, S0360: 1, S0007: 1, H0331: 1, H0553: 1, H0040: 1, L0351: 1, H0538: 1, S0426: 1, L0800: 1.	

1177	HKGCE23	564825	1187	136 - 225	3784			1, L0764: 1, L0803: 1, L0775: 1, L0776: 1, L0809: 1, L0789: 1, L0663: 1, L0749: 1, L0731: 1 and L0757: 1. H0050: 2, L0448: 1, H0637: 1, H0563: 1, S6028: 1, H0634: 1, S0112: 1, H0429: 1, H0560: 1, H0649: 1, H0538: 1, L0766: 1, L0523: 1, L0805: 1, L0789: 1, H0539: 1, H0521: 1, L0779: 1, L0758: 1 and S0192: 1.			
1178	HKGCE62	638200	1188	44 - 166	3785			H0538: 2 and H0543: 1.			
1179	HKGCK41	559327	1189	308 - 616	3786			H0457: 7, L0439: 4, L0744: 3, L0748: 3, H0341: 2, H0659: 2, L0743: 2, L0747: 2, L0786: 2, L0777: 2, H0556: 1, H0656: 1, L0471: 1, S6028: 1, S0003: 1, H0030: 1, H0633: 1, H0538: 1, H0529: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0792: 1, L0666: 1, H0555: 1, L0740: 1, L0754: 1, L0745: 1, L0752: 1, L0755: 1, L0758: 1, L0594: 1, S0011: 1, S0026: 1, S0242: 1, H0542: 1 and H0543: 1.	12p13.3		103950, 193100, 193400, 200990, 601458
1180	HKGCK41	795256	1190	316 - 624	3787			H0457: 7, L0439: 4, L0744: 3, L0748: 3, H0341: 2, H0659: 2, L0743: 2, L0747: 2, L0786: 2, L0777: 2, H0556: 1, H0656: 1, L0471: 1, S6028: 1, S0003: 1, H0030: 1, H0633: 1, H0538: 1, H0529: 1, L0766: 1, L0774: 1, L0655: 1, L0659: 1, L0792: 1, L0666: 1, H0555: 1, L0740: 1, L0754: 1, L0745: 1, L0752: 1, L0755: 1, L0758: 1, L0594: 1, S0011: 1, S0026: 1, S0242: 1, H0542: 1 and H0543: 1.	12p13.3		103950, 193100, 193400, 200990, 601458
1181	HKGCN96	833981	1191	303 - 347	3788			H0538: 1			

1182	HKGCX05	590150	1192	329 - 502	3789	Met-1 to Gln-6, Pro-32 to Ser-44.	H0538: 1			113811, 124020, 134637, 138250, 157640, 167409, 174900, 202110, 278000, 278000, 600095, 600512
1183	HKGDA95	581064	1193	302 - 670	3790	Ala-12 to Gly-18, Lys-80 to Gln-92, Phe-96 to Thr-102, Leu-106 to Asp-113.	L0747: 5, L0769: 4, L0776: 3, L0809: 3, S0404: 3, L0756: 3, L0731: 3, L0759: 3, H0545: 2, H0551: 2, L0772: 2, L0764: 2, L0774: 2, L0775: 2, L0655: 2, L0659: 2, H0670: 2, L0740: 2, L0754: 2, L0750: 2, L0752: 2, L0757: 2, H0685: 1, H0650: 1, H0656: 1, H0341: 1, S0212: 1, S0358: 1, H0637: 1, S0007: 1, L0622: 1, H0009: 1, H0239: 1, T0079: 1, S0628: 1, H0617: 1, S0364: 1, H0708: 1, S0036: 1, H0059: 1, H0100: 1, T0041: 1, H0494: 1, L0065: 1, H0538: 1, L0770: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0376: 1, L0806: 1, L0629: 1, L0512: 1, L0783: 1, L0382: 1, L0789: 1, H0711: 1, H0658: 1, H0660: 1, H0696: 1, L0780: 1, L0755: 1, S0434: 1, H0423: 1 and H0712: 1.	10q24.1-q24.3		
1184	HKGDO12	857225	1194	145 - 342	3791	His-60 to Ser-65.	H0538: 1			
1185	HKIME53	636982	1195	26 - 148	3792	Gly-33 to Gly-38.	AR089: 11, AR316: 9, AR060: 8 H0618: 7, L0747: 6, L0439: 5, H0617: 3, L0766: 3, L0438: 3, H0580: 2, H0328: 2, L0783: 2, H0694: 2, S0434: 2, H0717: 1, S0442: 1, S0360: 1, S0408: 1, H0208: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0333: 1, H0559: 1, H0486: 1, H0253: 1, T0048: 1, H0546: 1, T0003: 1, H0024: 1, H0373: 1, H0399: 1, H0292: 1, H0135: 1, L5565: 1, L0761: 1, L0630: 1, L0767:	11		

1186	HKIMG23	738671	1196	751 - 918	3793	Ser-20 to Tyr-25.	1, L0375: 1, L0653: 1, L0655: 1, L0807: 1, L0787: 1, H0547: 1, H0672: 1, H0576: 1, L0748: 1, L0786: 1, L0758: 1, L0759: 1, S0011: 1 and H0423: 1. L0731: 8, L0803: 7, H0457: 5, L0774: 5, L0438: 5, L0804: 4, L0769: 3, L0761: 3, L0517: 3, L0439: 3, L0751: 3, L0777: 3, L0758: 3, L0759: 3, H0341: 2, H0156: 2, L0772: 2, L0800: 2, L0764: 2, L0805: 2, L0789: 2, L0791: 2, S014: 2, L0748: 2, H0668: 2, H0543: 2, H0265: 1, H0556: 1, S0040: 1, H0295: 1, H0657: 1, H0656: 1, H0483: 1, H0402: 1, S0358: 1, S0045: 1, H0351: 1, H0437: 1, S0222: 1, H0486: 1, H0250: 1, T0082: 1, S0010: 1, H0581: 1, T0115: 1, S0051: 1, H0399: 1, H0266: 1, S0250: 1, H0039: 1, H0424: 1, H0553: 1, H0135: 1, H0551: 1, H0413: 1, T0041: 1, H0560: 1, S0450: 1, S0144: 1, L0646: 1, L0771: 1, L0363: 1, L0794: 1, L0766: 1, L0655: 1, L0657: 1, L0665: 1, H0690: 1, H0659: 1, S0152: 1, H0521: 1, S0044: 1, H0478: 1, S0390: 1, L0740: 1, L0747: 1, L0749: 1, L0779: 1 and L0757: 1.	3p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163
1187	HKIXB73	823043	1197	235 - 327	3794		H0441: 1		
1188	HKIXD68	840458	1198	133 - 249	3795		H0650: 1, H0441: 1, S0474: 1, H0052: 1, H0544: 1, L0794: 1, H0144: 1, S0328: 1, L0439: 1, L0777: 1, L0752: 1 and L0593: 1.		
1189	HKIXR91	590989	1199	10 - 150	3796	Pro-24 to Ser-32.	L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 4.	2q32	100690, 142989, 156232, 178600,

1190	HKIXS19	654849	1200	183 - 278	3797			3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1.		278250, 600258
								AR060: 11, AR316: 10, AR089: 10 H0052: 24, L0439: 15, S0412: 14, S0010: 12, H0599: 8, L0438: 7, S0222: 5, H0441: 3, H0156: 3, S0346: 3, T0010: 3, T0006: 3, L0455: 3, L0456: 3, L0779: 3, L0759: 3, S0049: 2, H0009: 2, H0562: 2, H0012: 2, S0036: 2, L0770: 2, L0794: 2, L0806: 2, L0352: 2, L0756: 2, L0753: 2, L0731: 2, L0588: 2, L0366: 2, S6024: 1, H0661: 1, S0420: 1, S0046: 1, H0351:		

1191	HKIXW45	704089	1201	196 - 294	3798				1, H0261: 1, H0438: 1, S0005: 1, H0013: 1, H0194: 1, L0163: 1, S0388: 1, S6028: 1, H0266: 1, S0340: 1, T0023: 1, H0213: 1, H0413: 1, S0038: 1, L0351: 1, L0370: 1, L0769: 1, L0630: 1, L0654: 1, L0655: 1, L0783: 1, L0809: 1, L0647: 1, S0378: 1, H0555: 1, L0612: 1, L0741: 1, L0747: 1, L0758: 1, L0684: 1, L0584: 1 and S0456: 1.		
									AR089: 42, AR316: 35, AR060: 29 L0748: 25, L0754: 21, L0439: 12, L0752: 11, L0747: 10, L0740: 9, L0438: 8, L0731: 8, L0758: 8, L0757: 7, L0455: 6, L0776: 6, S0474: 5, L0769: 5, S0003: 4, L0764: 4, L0596: 4, S0360: 3, H0013: 3, H0599: 3, S0010: 3, H0052: 3, H0544: 3, H0266: 3, H0553: 3, H0551: 3, L0770: 3, L0766: 3, S0354: 2, H0580: 2, S0278: 2, S0222: 2, H0318: 2, H0581: 2, H0421: 2, H0231: 2, S0214: 2, H0616: 2, H0494: 2, L0771: 2, L0768: 2, L0775: 2, L0651: 2, L0665: 2, H0144: 2, L0352: 2, H0547: 2, H0659: 2, H0539: 2, H0710: 2, H0522: 2, L0750: 2, L0779: 2, L0753: 2, L0759: 2, L0591: 2, L0592: 2, L0485: 2, L0595: 2, L0362: 2, L0600: 2, H0624: 1, H0265: 1, H0556: 1, S0114: 1, S0134: 1, H0656: 1, S0282: 1, H0638: 1, S0356: 1, S0376: 1, H0637: 1, H0329: 1, S0045: 1, H0640: 1, S0300: 1, H0369: 1, H0261: 1, H0441: 1,		



									H0453: 1, H0497: 1, H0632: 1, H0486: 1, H0156: 1, L0021: 1, H0097: 1, H0575: 1, H0036: 1, H0618: 1, S0049: 1, H0194: 1, H0545: 1, H0123: 1, H0050: 1, L0471: 1, H0051: 1, S0388: 1, S0628: 1, H0179: 1, H0328: 1, H0622: 1, L0483: 1, H0030: 1, H0644: 1, H0628: 1, H0032: 1, H0591: 1, H0038: 1, H0063: 1, H0413: 1, H0623: 1, T0004: 1, S0382: 1, S0440: 1, H0509: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, L0763: 1, L0371: 1, L0638: 1, L0646: 1, L0767: 1, L0774: 1, L0375: 1, L0655: 1, L0657: 1, L0659: 1, L0526: 1, L0382: 1, L0519: 1, L0792: 1, L0663: 1, L0664: 1, S0053: 1, H0658: 1, H0670: 1, S0152: 1, H0521: 1, S3014: 1, S0028: 1, L0744: 1, L0745: 1, L0756: 1, S0031: 1, S0260: 1, H0445: 1, L0588: 1, L0599: 1, L0593: 1, H0665: 1, S0192: 1, S0196: 1, H0542: 1, L0462: 1 and H0008: 1.				
1192	HKIYU90	772546	1202	396 - 449	3799				AR089: 75, AR316: 66, AR060: 59 L0741: 3, S0051: 2, L0665: 2, S6024: 1, S0300: 1, H0441: 1, L0622: 1, L0623: 1, S0346: 1, S0388: 1, L0770: 1, L0766: 1, L0375: 1, L0805: 1, L0559: 1 and L0659: 1.	11			
1193	HKMLB81	610017	1203	59 - 160	3800				H0431: 1				
1194	HKMLF77	604743	1204	203 - 295	3801			Gln-19 to Asn-24.	H0431: 1				
1195	HKMLM32	826523	1205	287 - 334	3802				H0346: 1 and H0431: 1.				
1196	HKMLR17	847432	1206	329 - 1210	3803			Glu-24 to Tyr-32,	AR182: 36, AR269: 27,				

Pro-40 to Ala-56, Glu-82 to Arg-88, Asn-101 to Pro-114, Pro-148 to Val-159, Gln-178 to Gly-184, Glu-187 to Ser-192, Glu-263 to Lys-268, Leu-289 to Cys-294.	AR175: 27, AR176: 27, AR173: 24, AR183: 23, AR191: 21, AR270: 20, AR189: 20, AR190: 19, AR174: 16, AR177: 13, AR210: 12, AR180: 9, AR181: 9, AR165: 8, AR268: 8, AR164: 8, AR192: 8, AR215: 8, AR166: 8, AR221: 7, AR178: 7, AR266: 7, AR162: 7, AR235: 7, AR290: 7, AR244: 6, AR255: 6, AR161: 6, AR163: 6, AR184: 6, AR211: 6, AR216: 6, AR288: 5, AR296: 5, AR060: 5, AR228: 5, AR267: 5, AR169: 5, AR223: 5, AR252: 4, AR257: 4, AR229: 4, AR206: 4, AR214: 4, AR217: 4, AR316: 4, AR236: 4, AR222: 4, AR254: 4, AR225: 4, AR179: 4, AR194: 4, AR224: 4, AR287: 4, AR196: 4, AR171: 4, AR226: 4, AR289: 4, AR061: 4, AR284: 3, AR200: 3, AR186: 3, AR240: 3, AR089: 3, AR286: 3, AR185: 3, AR233: 3, AR247: 3, AR274: 3, AR246: 3, AR264: 3, AR282: 3, AR055: 3, AR237: 3, AR262: 3, AR313: 3, AR239: 3, AR261: 3, AR273: 3, AR053: 3,
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Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the matrix A for a specific value of n. The x-axis for all histograms is labeled 'Number of non-zero elements' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 10. The histograms are labeled with n values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As n increases, the distribution of non-zero elements shifts to the right, indicating that the matrix A contains more non-zero elements as n increases.

1197	HKMLT89	826167	1207	87 - 209	3804	AR096: 3, AR230: 3, AR204: 3, AR168: 3, AR299: 3, AR310: 3, AR297: 3, AR207: 3, AR309: 3, AR277: 3, AR052: 3, AR238: 3, AR300: 3, AR272: 3, AR249: 3, AR213: 3, AR188: 3, AR311: 3, AR295: 3, AR291: 3, AR195: 3, AR294: 2, AR260: 2, AR293: 2, AR172: 2, AR199: 2, AR251: 2, AR312: 2, AR285: 2, AR234: 2, AR205: 2, AR259: 2, AR033: 2, AR232: 2, AR256: 2, AR231: 2, AR298: 2, AR203: 2, AR227: 2, AR275: 2, AR243: 2, AR292: 2, AR104: 2, AR201: 2, AR308: 2, AR258: 2, AR271: 2, AR283: 2, AR263: 2, AR212: 1, AR039: 1 L0731: 16, L0748: 4, L0749: 4, S0360: 3, L0750: 3, H0716: 2, L0774: 2, L0747: 2, L0755: 2, L0759: 2, L0603: 2, H0713: 1, H0717: 1, S0222: 1, H0431: 1, H0592: 1, H0574: 1, H0427: 1, H0373: 1, H0252: 1, L0143: 1, H0163: 1, L0769: 1, L0775: 1, L0636: 1, L0809: 1, L5622: 1, S0216: 1, H0144: 1, S0146: 1, L0777: 1, H0343: 1 and S0276: 1.	L0751: 2, H0431: 1, H0553: 1, L0662: 1, L0527: 1 and
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1198	HKMLV05	663924	1208	494 - 592	3805	Gln-22 to Asn-31.	H0444: 1. H0431: 2, L0362: 2, S0114: 1, L0800: 1, L0766: 1, L0747: 1, L0750: 1, L0589: 1 and L0591: 1.			
1199	HKMLV25	695731	1209	251 - 346	3806		AR060: 73, AR089: 73, AR316: 73 S0438: 7, S0406: 7, L0659: 6, S0374: 6, S0354: 5, L0771: 4, S0404: 4, S0356: 3, S0358: 3, S0408: 3, H0431: 3, H0486: 3, H0510: 3, H0039: 3, H0641: 3, L0776: 3, L0666: 3, L0748: 3, S0376: 2, S0360: 2, S0278: 2, H0331: 2, H0090: 2, H0509: 2, L0769: 2, L0768: 2, L0649: 2, L0774: 2, L0775: 2, L0655: 2, H0547: 2, H0658: 2, H0521: 2, H0555: 2, L0744: 2, L0754: 2, L0745: 2, H0445: 2, H0583: 1, S0442: 1, H0580: 1, H0393: 1, H0549: 1, H0550: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, L0021: 1, L0022: 1, H0036: 1, H0581: 1, S0324: 1, H0263: 1, H0204: 1, H0546: 1, H0199: 1, H0246: 1, H0355: 1, H0188: 1, H0288: 1, H0428: 1, H0604: 1, H0031: 1, H0617: 1, H0124: 1, S0036: 1, H0063: 1, H0059: 1, L0770: 1, L0646: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0662: 1, L0651: 1, L0653: 1, L0606: 1, L0809: 1, H0660: 1, H0672: 1, S0328: 1, H0679: 1, S3014: 1, L0743: 1, L0750: 1, L0777: 1 and H0506: 1.	7		
1200	HKMMB79	746871	1210	1109 - 1222	3807	Gln-24 to Thr-35.	L0754: 9, L0766: 7, H0623: 6, L0748: 6, H0599: 5, L0471: 5, L0662: 4, S0027: 4, S0420:			

1201	HKMMC69	852206	1211	150 - 251	3808	Gly-23 to Arg-33.	3, H0431: 3, H0519: 3, L0740: 3, L0749: 3, L0777: 3, S0192: 3, H0542: 3, H0713: 2, H0717: 2, S0212: 2, S0001: 2, L0481: 2, S0442: 2, S0046: 2, S0476: 2, S6016: 2, H0013: 2, H0575: 2, H0050: 2, H0622: 2, H0412: 2, L0598: 2, L0655: 2, L0659: 2, L0565: 2, L0751: 2, L0747: 2, L0756: 2, L0731: 2, L0588: 2, L0591: 2, S0194: 2, H0423: 2, H0624: 1, H0171: 1, H0265: 1, S0040: 1, T0049: 1, H0650: 1, H0657: 1, H0662: 1, H0638: 1, T0008: 1, H0580: 1, H0393: 1, L0717: 1, S0222: 1, H0587: 1, H0333: 1, H0002: 1, S0346: 1, T0048: 1, H0318: 1, H0544: 1, H0545: 1, H0150: 1, H0567: 1, H0024: 1, H0373: 1, L0163: 1, H0266: 1, S0250: 1, H0031: 1, H0553: 1, H0644: 1, H0124: 1, S0366: 1, H0063: 1, H0087: 1, H0551: 1, H0413: 1, H0056: 1, T0041: 1, H0560: 1, H0509: 1, S0002: 1, H0529: 1, L0763: 1, L0771: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0656: 1, L0809: 1, L0530: 1, L0666: 1, L0663: 1, H0693: 1, H0520: 1, H0521: 1, S0028: 1, L0757: 1, H0445: 1, S0242: 1, S0196: 1, L0462: 1 and H0293: 1.				
							H0445: 6, H0255: 2, H0431: 1 and L3872: 1.				
1202	HKMMD91	847394	1212	312 - 392	3809	Leu-19 to Asp-26.	L0748: 4, L0766: 3, L0438: 3, L0740: 3, L0756: 3, L0758: 3, S0242: 3, H0431: 2, L0598: 2, L0803: 2, H0435: 2, H0648: 2, L0439: 2, L0754: 2, L0731: 2				

1203	HKMMP90	746876	1213	361 - 426	3810	Arg-3 to Gln-9.	2, L0757: 2, H0422: 2, H0170: 1, H0664: 1, S0354: 1, H0619: 1, S0300: 1, H0549: 1, H0013: 1, H0156: 1, S0010: 1, H0046: 1, H0123: 1, H0687: 1, S0003: 1, H0622: 1, T0023: 1, H0553: 1, H0674: 1, H0616: 1, H0551: 1, T0067: 1, H0494: 1, H0646: 1, UNKWN: 1, H0529: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1, L0794: 1, L0804: 1, L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, H0520: 1, H0689: 1, H0684: 1, H0672: 1, S0152: 1, H0521: 1, S0406: 1, L0750: 1, L0759: 1, L0480: 1 and S0194: 1.		
1204	HKMMU76	690789	1214	228 - 395	3811		H0635: 3, H0261: 1, H0431: 1, S6028: 1, L0455: 1, L0766: 1, H0519: 1 and H0521: 1. L0749: 4, H0556: 3, H0124: 3, L0748: 3, L0743: 2, L0746: 2, L0777: 2, T0002: 1, S0470: 1, H0341: 1, S0418: 1, S0358: 1, H0261: 1, H0550: 1, H0431: 1, H0013: 1, H0635: 1, S0010: 1, H0024: 1, H0615: 1, H0673: 1, S0364: 1, L0455: 1, T0042: 1, H0633: 1, S0002: 1, S0426: 1, L0640: 1, L0639: 1, L0521: 1, L0794: 1, L0803: 1, L0650: 1, L0775: 1, L0606: 1, L0790: 1, H0547: 1, S0152: 1, L0439: 1, L0747: 1, L0780: 1, L0758: 1 and L0759: 1.		
1205	HKPAC10	527238	1215	126 - 164	3812		S0016: 1		
1206	HKPAC50	830367	1216	334 - 411	3813		AR089: 33, AR316: 25, AR060: 19 L0775: 8, L0005: 7, L0758:	9pter-p22.3	

1207	HKPMA08	608164	1217	181 - 294	3814	Met-1 to Gly-9.	<p>7, L0752: 6, S0410: 5, S0440: 5, S0144: 5, H0659: 5, L0747: 5, H0341: 4, H0150: 4, S0422: 4, L0748: 4, L0740: 4, H0520: 3, L0755: 3, H0650: 2, S0045: 2, S0280: 2, H0599: 2, L0163: 2, H0038: 2, H0616: 2, S0344: 2, L0769: 2, L0521: 2, L0768: 2, L0375: 2, L0776: 2, L0790: 2, S0374: 2, S0126: 2, S0406: 2, L0754: 2, H0595: 2, T0002: 1, H0713: 1, H0656: 1, S0116: 1, S0212: 1, H0484: 1, H0664: 1, H0125: 1, S0356: 1, S0354: 1, S0358: 1, S0444: 1, S0360: 1, S0408: 1, H0637: 1, H0580: 1, S0300: 1, H0549: 1, S0222: 1, H0586: 1, H0587: 1, H0333: 1, H0156: 1, L0021: 1, S0346: 1, H0318: 1, H0581: 1, H0530: 1, L0471: 1, S0362: 1, H0051: 1, S0051: 1, H0375: 1, H0266: 1, H0213: 1, H0412: 1, S0112: 1, H0494: 1, H0512: 1, S0016: 1, S0438: 1, S0150: 1, H0529: 1, L0373: 1, L0764: 1, L0522: 1, L0655: 1, L0379: 1, L0665: 1, H0547: 1, H0684: 1, H0660: 1, S0328: 1, S0378: 1, H0522: 1, H0696: 1, H0134: 1, H0345: 1, S0027: 1, S0032: 1, L0744: 1, L0759: 1, S0031: 1, H0445: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1 and H0423: 1.</p> <p>H0616: 5, L0731: 3, H0453: 2, L0769: 2, L0766: 2, L0789: 2, S0028: 2, L0758: 2, L0604: 2, H0728: 1, S0300: 1, H0550: 1, H0587: 1, H0618: 1, S0010: 1, S0051: 1, H0334: 1, L0770: 1.</p>
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1208	HKTAC18	831292	1218	2010 - 2081	3815			1, L5565: 1, L0803: 1, H0689: 1, L0746: 1, L0747: 1, L0780: 1 and L0759: 1. L0750: 4, H0457: 3, L0521: 3, L0756: 3, H0373: 2, S0374: 2, H0658: 2, L0759: 2, S0001: 1, H0596: 1, H0567: 1, H0570: 1, H0239: 1, H0328: 1, H0673: 1, H0163: 1, H0063: 1, S0438: 1, L0763: 1, L0638: 1, L0642: 1, L0768: 1, L0766: 1, L0804: 1, L0651: 1, L0657: 1, L0659: 1, L0787: 1, L0666: 1, L0663: 1, H0520: 1, H0547: 1, H0690: 1, H0670: 1, S0380: 1, S0146: 1, L0754: 1, L0777: 1, L0731: 1 and L0757: 1.		
1209	HLISA89	839594	1219	1030 - 1086	3816			H0617: 10, L0748: 7, H0620: 6, L0752: 6, L0769: 5, L0768: 4, L0751: 4, L0731: 4, H0689: 3, L0439: 3, L0750: 3, S0420: 2, H0581: 2, H0012: 2, T0041: 2, L0771: 2, L0773: 2, L0662: 2, L0766: 2, L0774: 2, L0775: 2, L0776: 2, H0696: 2, L0754: 2, H0265: 1, H0657: 1, H0484: 1, H0255: 1, H0661: 1, S0418: 1, S0045: 1, H0393: 1, L0012: 1, H0574: 1, H0618: 1, H0196: 1, H0597: 1, H0327: 1, H0545: 1, H0009: 1, H0510: 1, S0022: 1, H0606: 1, H0087: 1, H0413: 1, H0207: 1, H0641: 1, H0633: 1, L0369: 1, L0763: 1, L0770: 1, L0772: 1, L0521: 1, L0375: 1, L0378: 1, L0806: 1, L0655: 1, L0783: 1, L0809: 1, L0665: 1, H0144: 1, L0438: 1, H0435: 1, H0670: 1, H0539: 1, H0555: 1, S0206: 1, L0741: 1, L0747: 1.	9q34	125270, 125270, 128100, 137350, 191100, 215700, 223360, 268900, 601850



1210	HL2AB60	722226	1220	145 - 1296	3817	Arg-51 to His-60, Glu-134 to Gly-143, Leu-225 to Arg-231, Lys-242 to Pro-266, Asp-317 to Thr-322, Ser-352 to Gln-364, Arg-372 to Asp-383.	1, L0749: 1, L0786: 1, L0758: 1, S0192: 1 and L0698: 1. AR238: 20, AR052: 18, AR089: 17, AR249: 16, AR060: 15, AR053: 15, AR039: 15, AR205: 15, AR316: 14, AR309: 14, AR244: 14, AR291: 14, AR194: 13, AR231: 13, AR312: 12, AR213: 12, AR313: 12, AR299: 12, AR310: 12, AR243: 11, AR202: 11, AR234: 11, AR265: 11, AR295: 11, AR246: 11, AR055: 11, AR206: 11, AR248: 11, AR292: 11, AR241: 11, AR247: 11, AR192: 10, AR253: 10, AR229: 10, AR183: 10, AR198: 10, AR186: 10, AR218: 10, AR280: 10, AR282: 10, AR315: 10, AR061: 10, AR285: 9, AR298: 9, AR263: 9, AR240: 9, AR033: 9, AR300: 9, AR271: 9, AR296: 9, AR275: 9, AR281: 9, AR268: 9, AR283: 9, AR096: 8, AR175: 8, AR274: 8, AR185: 8, AR104: 8, AR269: 8, AR293: 8, AR204: 8, AR277: 8, AR219: 8, AR237: 7, AR284: 7, AR184: 7, AR232: 7, AR314: 7, AR294: 7, AR270: 7, AR273: 7, AR266: 7, AR226: 7, AR177: 7, AR289: 7,	2p13	203800, 602404
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1211	HL3AE69	695734	1221	41 - 175	3818	Cys-26 to Asn-31.	<p>1, L0623: 1, H0250: 1, H0635: 1, H0575: 1, H0706: 1, H0421: 1, S0049: 1, H0052: 1, H0596: 1, H0597: 1, H0544: 1, L0041: 1, H0178: 1, H0172: 1, H0242: 1, L0471: 1, H0620: 1, H0024: 1, H0014: 1, S0362: 1, H0266: 1, H0271: 1, S0022: 1, H0428: 1, H0424: 1, H0644: 1, H0111: 1, S0366: 1, H0090: 1, H0634: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, L0351: 1, T0041: 1, T0042: 1, H0494: 1, H0386: 1, S0440: 1, H0509: 1, H0131: 1, H0633: 1, S0422: 1, S0002: 1, L0369: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0761: 1, L0642: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0375: 1, L0379: 1, L0661: 1, L0657: 1, L0658: 1, L0783: 1, L0382: 1, L0809: 1, L0792: 1, L0565: 1, S0126: 1, H0689: 1, H0690: 1, H0683: 1, H0659: 1, H0658: 1, H0660: 1, S0330: 1, H0539: 1, S0380: 1, S0350: 1, S0037: 1, S014: 1, L0744: 1, L0740: 1, L0759: 1, S0434: 1, L0594: 1, S0011: 1, H0423: 1 and H0506: 1.</p> <p>AR060: 7, AR316: 7, AR089: 7</p> <p>L0748: 9, L0157: 5, L0659: 5, L0747: 5, L0005: 3, L0764: 3, L0439: 3, L0740: 3, H0624: 2, S0212: 2, S0007: 2, S0010: 2, H0251: 2, H0132: 2, L0769: 2, L0794: 2, L0766: 2, L0805: 2, L0783: 2, L0789: 2, L0663: 2, L0665: 2, H0658: 2, H0521: 2.</p>		
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1212	HL3AF32	753468	1222	281 - 394	3819	Glu-28 to Thr-37.	<p>2, L0742: 2, L0744: 2, L0745: 2, L0749: 2, L0752: 2, L0731: 2, L0758: 2, L0759: 2, S0424: 2, H0170: 1, S0134: 1, S0116: 1, S0001: 1, S0356: 1, S0358: 1, H0580: 1, H0351: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, S0049: 1, H0052: 1, H0041: 1, H0009: 1, H0050: 1, L0471: 1, H0012: 1, H0024: 1, H0051: 1, T0010: 1, H0375: 1, H0099: 1, H0252: 1, H0615: 1, H0039: 1, L0142: 1, H0617: 1, H0674: 1, S0366: 1, H0135: 1, H0591: 1, H0100: 1, L0351: 1, H0625: 1, H0654: 1, S0344: 1, H0529: 1, L0770: 1, L3905: 1, L0761: 1, L0773: 1, L0662: 1, L0364: 1, L0776: 1, L0657: 1, L0636: 1, L0526: 1, L0532: 1, L0666: 1, H0724: 1, H0547: 1, H0660: 1, H0522: 1, S0406: 1, L0754: 1, L0777: 1 and H0008: 1.</p> <p>AR089: 10, AR316: 7, AR060: 4</p> <p>L0748: 7, L0659: 3, L0747: 3, S0212: 2, S0010: 2, H0132: 2, L0764: 2, L0744: 2, L0752: 2, L0759: 2, S0424: 2, H0170: 1, S0116: 1, S0358: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, H0041: 1, H0050: 1, L0471: 1, H0375: 1, H0615: 1, H0039: 1, H0674: 1, H0100: 1, H0625: 1, H0654: 1, H0529: 1, L0364: 1, L0636: 1, L0526: 1, L0783: 1, L0532: 1, L0663: 1, L0665: 1, H0724: 1, H0658: 1, H0660: 1, H0521: 1, H0522: 1, S0406: 1 and L0740: 1.</p>
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1213	HLDV70	623603	1223	38 - 127	3820	Thr-13 to Asn-23.	H0509: 1, S0374: 1 and H0521: 1.			
1214	HLDBL62	899498	1224	372 - 743	3821	Glu-26 to Asn-36, Ser-43 to Arg-60, Pro-107 to Glu-116.	AR239: 420, AR231: 296, AR234: 148, AR238: 142, AR226: 142, AR061: 100, AR237: 96, AR230: 95, AR228: 83, AR227: 71, AR232: 65, AR229: 49, AR233: 43, AR267: 38, AR060: 37, AR216: 31, AR207: 28, AR254: 26, AR249: 25, AR268: 25, AR214: 25, AR316: 24, AR183: 21, AR269: 20, AR194: 20, AR215: 19, AR217: 19, AR246: 18, AR184: 18, AR206: 18, AR173: 17, AR243: 17, AR180: 17, AR290: 17, AR039: 16, AR197: 15, AR195: 15, AR270: 15, AR299: 14, AR281: 14, AR242: 13, AR202: 13, AR245: 12, AR244: 11, AR250: 11, AR247: 11, AR211: 11, AR175: 11, AR274: 10, AR177: 10, AR241: 10, AR182: 10, AR192: 10, AR263: 9, AR089: 9, AR310: 9, AR252: 9, AR251: 9, AR198: 9, AR174: 9, AR225: 9, AR172: 8, AR280: 8, AR204: 8, AR181: 8, AR289: 8, AR253: 8, AR265: 8, AR223: 8, AR284: 8, AR300: 8, AR169: 8, AR240: 8, AR205: 8, AR178: 8, AR275: 8,	7		

									AR235: 8, AR190: 8, AR176: 7, AR222: 7, AR248: 7, AR266: 7, AR165: 7, AR162: 7, AR315: 7, AR161: 7, AR193: 7, AR201: 7, AR292: 7, AR168: 7, AR163: 7, AR164: 7, AR185: 7, AR096: 7, AR055: 7, AR298: 7, AR166: 7, AR224: 7, AR221: 7, AR291: 7, AR283: 6, AR196: 6, AR282: 6, AR271: 6, AR273: 6, AR277: 6, AR189: 6, AR033: 6, AR314: 6, AR264: 6, AR191: 6, AR295: 6, AR272: 6, AR171: 6, AR313: 6, AR288: 5, AR200: 5, AR186: 5, AR213: 5, AR311: 5, AR285: 5, AR212: 5, AR256: 5, AR312: 5, AR179: 5, AR297: 5, AR170: 4, AR052: 4, AR309: 4, AR053: 4, AR255: 4, AR286: 4, AR296: 4, AR308: 4, AR261: 4, AR104: 4, AR188: 4, AR203: 4, AR293: 4, AR236: 4, AR287: 4, AR294: 4, AR262: 3, AR199: 3, AR257: 3, AR258: 3, AR259: 3, AR210: 3, AR219: 3, AR218: 2, AR260: 2 S0410: 16, S0436: 10, L0748: 9, S0358: 7, S0438: 5,
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1215	HLDBV18	805684	1225	1176 - 1298	3822					<p>S0444: 3, H0574: 3, H0620: 3, H0509: 3, L0375: 3, L5286: 3, S0354: 2, S0360: 2, H0730: 2, H0722: 2, S0278: 2, H0431: 2, H0331: 2, H0632: 2, H0012: 2, H0031: 2, H0124: 2, H0038: 2, H0059: 2, S0440: 2, L0771: 2, L0648: 2, L0775: 2, L0805: 2, L0776: 2, L0747: 2, L0749: 2, L0731: 2, L0581: 2, L0778: 1, H0663: 1, H0402: 1, S0356: 1, S0376: 1, H0675: 1, H0619: 1, H0393: 1, H0550: 1, H0392: 1, H0486: 1, H0253: 1, H0231: 1, L0738: 1, H0546: 1, H0545: 1, H0050: 1, L0471: 1, H0355: 1, H0622: 1, H0644: 1, H0166: 1, H0090: 1, L0646: 1, L0644: 1, L0764: 1, L0364: 1, L0803: 1, L0774: 1, L0809: 1, L0792: 1, L0665: 1, H0684: 1, H0672: 1, H0696: 1, S0044: 1, S0406: 1, H0555: 1, L0743: 1, L0745: 1, L0779: 1, L0755: 1, S0031: 1, L0361: 1 and H0506: 1.</p> <p>AR060: 48, AR089: 47, AR316: 47</p> <p>L0752: 9, L0731: 9, L0740: 8, L0769: 6, L0749: 6, L0766: 5, L0775: 5, L0747: 5, L0595: 5, S0418: 4, S0358: 4, L0764: 4, L0776: 4, L0748: 4, L0439: 4, L0757: 4, L0759: 4, H0556: 3, H0052: 3, H0050: 3, H0494: 3, L0771: 3, L0774: 3, L0666: 3, L0665: 3, S0328: 3, L0779: 3, L0596: 3, H0176: 2, S0408: 2, H0431: 2, H0592: 2, H0586: 2, H0013: 2, S0474: 2, H0178: 2, L0471: 2, H0292: 2, H0361: 2</p>
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1216	HLDDBV54	570813	1226	147 - 371	3823	Ser-6 to Asp-12.	1, H0543: 1, H0008: 1 and H0352: 1. L0803: 5, L0770: 3, H0544: 2, L0641: 2, L0766: 2, L0659: 2, L0748: 2, L0747: 2, L0759: 2, L0590: 2, H0650: 1, S0280: 1, H0318: 1, H0024: 1, S0003: 1, L0055: 1, H0551: 1, L0564: 1, S0370: 1, H0509: 1, H0647: 1, L0373: 1, L0646: 1, L0644: 1, L0804: 1, L0650: 1, L0774: 1, L0658: 1, L0783: 1, S0330: 1, H0696: 1, L0779: 1, L0753: 1, L0593: 1 and H0542: 1.		
1217	HLDCCR26	852350	1227	759 - 890	3824	Pro-35 to Trp-40.	L0740: 12, S0422: 11, L0766: 8, L0803: 7, S0270: 7, L0771: 6, S0358: 5, H0580: 5, H0622: 5, S0440: 5, L0805: 5, L0758: 5, L0596: 5, H0581: 4, L0666: 4, S0434: 4, S0360: 3, L0761: 3, L0800: 3, L0809: 3, S0328: 3, S0406: 3, S0436: 3, S0354: 2, H0486: 2, H0318: 2, S0474: 2, S0003: 2, H0591: 2, H0264: 2, H0509: 2, H0641: 2, H0529: 2, L0763: 2, L0773: 2, L0375: 2, L0776: 2, L0655: 2, L0789: 2, L0664: 2, H0144: 2, L0602: 2, H0518: 2, H0521: 2, L0439: 2, L0754: 2, L0749: 2, L0779: 2, L0731: 2, L0759: 2, L0599: 2, L0362: 2, S0252: 1, H0222: 1, H0686: 1, H0713: 1, S0134: 1, H0656: 1, S0116: 1, H0638: 1, S0418: 1, S0420: 1, S0444: 1, S0408: 1, S0476: 1, H0619: 1, H0586: 1, H0497: 1, H0485: 1, T0114: 1, H0013: 1, H0075: 1, L0021: 1, H0575: 1, L0563: 1, H0251: 1, H0596: 1,		

1218	HLLDM27	850360	1228	169 - 372	3825	Cys-35 to Gly-40, Gly-45 to Tyr-53.	<p>L0738: 1, H0023: 1, H0083: 1, S0214: 1, H0428: 1, L0483: 1, H0553: 1, H0169: 1, H0163: 1, H0090: 1, H0040: 1, H0616: 1, H0412: 1, H0413: 1, H0561: 1, S0370: 1, S0448: 1, S0438: 1, S0472: 1, H0652: 1, S0002: 1, L0598: 1, L0369: 1, L0770: 1, L0667: 1, L0642: 1, L0662: 1, L0794: 1, L0775: 1, L0784: 1, L0652: 1, L0628: 1, L0659: 1, H0702: 1, S0374: 1, H0520: 1, H0689: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0539: 1, S0378: 1, S0152: 1, S0266: 1, S0264: 1, L0748: 1, L0751: 1, L0750: 1, L0756: 1, L0752: 1, S0308: 1, H0707: 1, L0588: 1, L0608: 1, S0026: 1, H0423: 1, H0506: 1 and H0721: 1.</p> <p>AR060: 44, AR316: 42, AR089: 39 L0601: 17, L0747: 11, H0255: 10, L0766: 9, L0439: 9, H0457: 8, L0659: 8, H0521: 8, H0543: 8, L0750: 7, L0731: 7, L0757: 7, H0052: 6, L0665: 6, H0012: 5, H0617: 5, L0763: 5, L0662: 5, L0666: 5, H0445: 5, H0656: 4, S0360: 4, H0549: 4, H0550: 4, H0050: 4, H0620: 4, H0551: 4, H0494: 4, L0646: 4, L0775: 4, L0663: 4, H0547: 4, H0660: 4, L0595: 4, H0650: 3, H0341: 3, H0484: 3, S0418: 3, H0580: 3, S0278: 3, H0575: 3, H0253: 3, H0318: 3, H0581: 3, H0251: 3, S0250: 3, H0039: 3, H0124: 3, H0063: 3, T0042: 3, S0210: 3, L0770: 3, L0769:</p>		
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[illegible]

1219	HLLDDM27	881984	1229	177 - 380	3826	Cys-35 to Gly-40, Gly-45 to Tyr-53.	1, L0658: 1, L0382: 1, L0809: 1, H0519: 1, H0593: 1, H0689: 1, H0435: 1, H0672: 1, H0539: 1, H0696: 1, S0044: 1, H0436: 1, S0028: 1, L0741: 1, H0668: 1, H0653: 1, S0196: 1, S0424: 1, S0458: 1 and L0600: 1. AR060: 44, AR316: 42, AR089: 39 L0601: 17, L0747: 11, H0255: 10, L0766: 9, L0439: 9, H0457: 8, L0659: 8, H0521: 8, H0543: 8, L0750: 7, L0731: 7, L0757: 7, H0052: 6, L0665: 6, H0012: 5, H0617: 5, L0763: 5, L0662: 5, L0666: 5, H0445: 5, H0656: 4, S0360: 4, H0549: 4, H0550: 4, H0050: 4, H0620: 4, H0551: 4, H0494: 4, L0646: 4, L0775: 4, L0663: 4, H0547: 4, H0660: 4, L0595: 4, H0650: 3, H0341: 3, H0484: 3, S0418: 3, H0580: 3, S0278: 3, H0575: 3, H0253: 3, H0318: 3, H0581: 3, H0251: 3, S0250: 3, H0039: 3, H0124: 3, H0063: 3, T0042: 3, S0210: 3, L0770: 3, L0769: 3, L0761: 3, H0555: 3, L0751: 3, L0749: 3, L0593: 3, H0542: 3, H0423: 3, H0422: 3, H0225: 2, H0483: 2, S0358: 2, H0619: 2, L0717: 2, H0261: 2, H0370: 2, H0486: 2, H0250: 2, H0618: 2, H0545: 2, H0009: 2, L0471: 2, H0083: 2, H0286: 2, H0252: 2, H0135: 2, H0264: 2, H0509: 2, H0646: 2, L0638: 2, L0648: 2, L0767: 2, L0649: 2, L0774: 2, L0378: 2, L0653: 2, L0655: 2, L0783: 2, L0664: 2, L0565:					
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1220	HLDNF18	821599	1230	197 - 586	3827	Phe-35 to Ala-46, Ser-80 to Asn-89.	AR060: 3, AR316: 2, AR089: 2 L0779: 7, L0741: 6, L0777: 6, L0751: 5, H0556: 4, L0776: 3, H0617: 2, L0803: 2, L0789: 2, S0126: 2, S3012: 2, L0745:	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
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1221	HLDNN84	612801	1231	12 - 122	3828			2, L0759: 2, H0265: 1, S0360: 1, S0045: 1, S0278: 1, H0455: 1, H0574: 1, L0021: 1, H0545: 1, H0009: 1, H0081: 1, H0620: 1, H0510: 1, S0214: 1, H0673: 1, H0169: 1, H0038: 1, H0412: 1, H0413: 1, H0059: 1, H0494: 1, H0641: 1, L0770: 1, L0772: 1, L0800: 1, L0764: 1, L0794: 1, L0766: 1, L0497: 1, L0804: 1, L0774: 1, L0659: 1, L0518: 1, L0809: 1, H0436: 1, L0754: 1, L0747: 1 and L0750: 1.		
1222	HLDOD77	610208	1232	106 - 201	3829			H0510: 1, H0100: 1 and S0424: 1.		
1223	HLDOL74	812765	1233	193 - 333	3830			H0510: 1 and L0748: 1. L0439: 4, L0731: 4, L0596: 4, H0457: 3, L0748: 3, L0747: 3, L0779: 3, L0758: 3, L0770: 2, L0803: 2, L0750: 2, L0588: 2, L0593: 2, H0171: 1, H0556: 1, H0341: 1, S0356: 1, S0358: 1, H0619: 1, L0717: 1, H0574: 1, T0040: 1, H0427: 1, H0581: 1, H0046: 1, H0510: 1, S0312: 1, H0070: 1, H0040: 1, H0551: 1, H0560: 1, S0344: 1, L0763: 1, L0769: 1, L0761: 1, L0667: 1, L0764: 1, L0662: 1, L0363: 1, L0768: 1, L0375: 1, L0376: 1, L0783: 1, L0529: 1, L0438: 1, H0520: 1, L0602: 1, S0152: 1, H0521: 1, L0749: 1, H0445: 1, L0608: 1 and H0423: 1.	3p25.3-p25.1	193300, 193300, 227646
1224	HLDPB24	853440	1234	238 - 405	3831	Met-1 to Arg-8.		S0136: 52, H0619: 1, H0510: 1, L0438: 1 and L0757: 1.		
1225	HLDROU08	701995	1235	161 - 316	3832	Ser-36 to Lys-51.		AR089: 6, AR316: 5, AR060: 4 S0360: 4, H0623: 3, L0731:	11pter-p15.5	

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1226	HLDXF43	514022	1236	28 - 183	3833			H0073: 1				
1227	HLEAA10	824265	1237	34 - 168	3834			H0073: 1 and S0052: 1.				
1228	HLEAA24	745383	1238	46 - 183	3835			L0748: 2, L0749: 2, H0024: 1 and H0051: 1.				
1229	HLHAE14	865625	1239	17 - 139	3836		Gly-25 to Asn-34.					
1230	HLHAE14	886763	1240	17 - 139	3837		Gly-25 to Asn-34.					
1231	HLHBS54	837503	1241	73 - 1101	3838		Glu-25 to Glu-36, Thr-51 to Asp-57, Leu-117 to Gly-129.	AR089: 17, AR316: 12, AR060: 9 L0751: 12, L0757: 9, L0595: 8, H0024: 6, S0002: 6, H0545: 5, L0740: 5, S0434: 5, H0620: 4, H0135: 4, S0426: 4, L0776: 4, L0659: 4, L0747: 4, L0750: 4, H0333: 3, H0046: 3, H0622: 3, H0087: 3, S0144: 3, L0770: 3, L0809: 3, S0152: 3, S0037: 3, L0754: 3, L0752: 3, S0001: 2, S0360: 2, S0007: 2, H0549: 2, S0222: 2, H0587: 2, H0632: 2, H0618: 2, H0309: 2, H0546: 2, H0050: 2, H0012: 2, H0266:				

[illegible]

1232	HLHCB33	638208	1242	9 - 176	3839	Pro-29 to Lys-34, Arg-50 to Leu-55.	2, H0124: 2, H0413: 2, S0344: 2, L0769: 2, L0772: 2, L0648: 2, L0662: 2, L0517: 2, L0666: 2, L0664: 2, H0689: 2, H0521: 2, H0522: 2, H0696: 2, S0406: 2, L0743: 2, L0744: 2, L0749: 2, L0731: 2, L0589: 2, L0592: 2, L0593: 2, H0149: 1, S0116: 1, H0484: 1, H0255: 1, H0661: 1, H0662: 1, S0410: 1, S0045: 1, S0046: 1, H0619: 1, S0278: 1, H0437: 1, H0550: 1, H0441: 1, H0249: 1, H0427: 1, H0253: 1, H0052: 1, H0251: 1, H0597: 1, H0544: 1, L0041: 1, H0041: 1, H0009: 1, H0172: 1, H0566: 1, H0399: 1, H0239: 1, H0687: 1, H0288: 1, H0292: 1, T0023: 1, H0424: 1, H0213: 1, H0617: 1, H0673: 1, H0169: 1, H0376: 1, H0623: 1, S0210: 1, L0369: 1, L0762: 1, L0763: 1, L5565: 1, L0767: 1, L0803: 1, L0775: 1, L0523: 1, L0806: 1, L0655: 1, L0518: 1, L0783: 1, L0519: 1, L0790: 1, L0663: 1, S0148: 1, S0310: 1, H0547: 1, H0659: 1, H0651: 1, H0539: 1, H0555: 1, H0626: 1, S0314: 1, S0027: 1, L0748: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0759: 1, L0603: 1, H0668: 1, S0196: 1, S0424: 1 and H0352: 1.	AR197: 6, AR192: 6, AR309: 5, AR176: 5, AR178: 4, AR242: 4, AR204: 4, AR221: 4, AR161: 4, AR246: 4, AR162: 4, AR163: 4, AR170: 4, AR253: 4,
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1233	HLHCF14	834846	1243	423 - 581	3840			AR291: 1, AR188: 1, AR096: 1, AR189: 1, AR200: 1, AR210: 1, AR033: 1, AR235: 1, AR256: 1, AR285: 1 S0404: 3, L0803: 2, H0686: 1, S0444: 1, H0024: 1, L0646: 1, L0662: 1, L0794: 1, L0649: 1, L0774: 1, L0789: 1, L0663: 1 and S0374: 1.		
1234	HLHCG24	847398	1244	140 - 295	3841	Ser-24 to Gln-32, Ile-38 to Cys-43.		AR060: 7, AR316: 6, AR089: 6 H0024: 2, L0749: 2, L0599: 2, L0663: 1, H0593: 1, L0748: 1 and L0780: 1. H0599: 5, H0295: 4, H0617: 4, L0769: 4, H0242: 3, L0748: 3, H0024: 2, L0655: 2, L0747: 2, L0756: 2, L0779: 2, L0757: 2, H0506: 2, H0265: 1, H0556: 1, H0341: 1, H0458: 1, S0356: 1, S0354: 1, S0046: 1, L0717: 1, H0441: 1, H0586: 1, H0013: 1, H0427: 1, H0156: 1, H0618: 1, L0157: 1, H0123: 1, H0050: 1, H0083: 1, H0687: 1, H0673: 1, H0708: 1, H0038: 1, H0634: 1, H0100: 1, H0560: 1, L0761: 1, L0764: 1, L0521: 1, L0382: 1, S0126: 1, H0689: 1, H0435: 1, H0658: 1, H0555: 1, S014: 1, S0028: 1, L0740: 1, L0755: 1, L0758: 1, H0543: 1, H0423: 1 and S0456: 1.		
1235	HLHCH20	753464	1245	157 - 207	3842			AR089: 4, AR316: 4, AR060: 4 L0766: 7, L0748: 5, H0031: 4, L0751: 4, L0758: 4, H0024: 3, H0038: 3, L0776: 3, L0518: 3, L0745: 3, H0624: 2, H0265: 1	X	

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1236	HLHCN51	836150	1246	237 - 383	3843				L0171: 2, H0580: 1, H0208: 1, H0309: 1, H0024: 1, H0598: 1, L0754: 1 and H0422: 1.			
1237	HLHCT96	886178	1247	182 - 214	3844				AR089: 15, AR316: 11, AR060: 7 H0024: 38, H0123: 15, H0208: 5, H0209: 1, H0617: 1, H0264: 1 and L0386: 1.			
1238	HLHDC33	779499	1248	63 - 68	3845				AR316: 8, AR060: 8, AR089: 8 H0615: 2, H0580: 1, H0024: 1, H0428: 1, L0804: 1, H0670: 1, H0651: 1 and L0756: 1.	3q23-q24	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 203500, 276902, 601199, 601199, 601199, 601682	
1239	HLHDF92	846331	1249	515 - 613	3846			Pro-12 to Asp-17, Ser-25 to Gly-31.	AR089: 227, AR316: 185, AR060: 146 H0050: 21, H0024: 10, S0194: 6, H0144: 5, L0754: 5, H0619: 4, L0757: 4, S0276: 4, H0208: 3, H0352: 3, H0123: 2, H0081: 2, H0105: 2, H0620: 2, L0375: 2, L0743: 2, L0751: 2, L0779: 2, L0605: 2, H0008: 2, L0717: 1, H0013: 1, L0021: 1, H0309: 1, H0085: 1, H0231: 1,			

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1240	HLHDL05	841732	1250	73 - 138	3847				AR089: 27, AR316: 20, AR060: 14 H0024: 1			
1241	HLHDL37	847399	1251	94 - 117	3848				AR089: 37, AR316: 34, AR060: 30 H0024: 2			
1242	HLHDL69	883335	1252	432 - 548	3849				AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591:	2p12-pl1.2	147200, 178640, 216900	

1243	HLHDL69	850691	1253	433 - 549	3850		1, L0599: 1, H0668: 1 and H0422: 1. AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.	2p12-p11.2	147200, 178640, 216900
1244	HLHDL69	843836	1254	433 - 549	3851		AR089: 14, AR316: 11, AR060: 9 S0003: 7, H0046: 6, L0766: 5, L0731: 5, L0794: 4, L0805: 4, L0804: 3, L0748: 3, L0747: 3, L0777: 3, L0758: 3, H0556: 2, S0418: 2, S0442: 2, H0333: 2, S0418: 2, S0442: 2, H0333:	2p12-p11.2	147200, 178640, 216900

1245	HLHDL69	855906	1255	433 - 549	3852			2, H0331: 2, H0253: 2, L0598: 2, L0803: 2, L0775: 2, L0776: 2, L0789: 2, L0602: 2, S3014: 2, L0439: 2, L0749: 2, L0753: 2, L0608: 2, L0362: 2, S0040: 1, S0218: 1, H0583: 1, H0650: 1, H0656: 1, L0415: 1, H0720: 1, H0638: 1, S0354: 1, H0580: 1, H0250: 1, H0599: 1, H0618: 1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S3012: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.	2p12-p11.2	147200, 178640, 216900
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1246	HLHDM38	566843	1256	282 - 407	3853					1, H0309: 1, T0110: 1, H0178: 1, H0123: 1, H0024: 1, H0428: 1, T0023: 1, L0483: 1, H0628: 1, H0316: 1, T0067: 1, H0488: 1, S0344: 1, H0538: 1, UNKWN: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0375: 1, L0651: 1, L0806: 1, L0655: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, H0725: 1, S0328: 1, H0539: 1, H0521: 1, H0436: 1, S0102: 1, L0779: 1, L0757: 1, S0308: 1, L0591: 1, L0599: 1, H0668: 1 and H0422: 1.	2p23.3-q14.3	176830, 176830, 182601, 229800, 602134
1247	HLHDR92	692150	1257	157 - 204	3854					AR089: 20, AR316: 15, AR060: 11 H0024: 2, H0208: 1 and S0222: 1.		
1248	HLHDY94	847121	1258	153 - 335	3855					AR089: 5, AR316: 5, AR060: 4 H0551: 8, S0126: 5, S0250: 4, H0617: 3, S0420: 2, H0587: 2, H0559: 2, H0544: 2, H0024: 2, H0124: 2, H0059: 2, S0390: 2, S0028: 2, H0543: 2, S0040: 1, S0212: 1, H0661: 1, H0638: 1, S0418: 1, S0356: 1, S0442: 1, H0549: 1, H0550: 1, H0333: 1, H0486: 1, T0040: 1, L0021: 1.		

1249	HLHEE27	815512	1259	1260 - 1445	3856			1, H0575: 1, H0618: 1, H0253: 1, T0048: 1, H0318: 1, S0049: 1, H0545: 1, H0086: 1, H0123: 1, H0057: 1, H0266: 1, H0252: 1, H0135: 1, H0616: 1, H0087: 1, H0100: 1, H0494: 1, L0770: 1, L5575: 1, L0773: 1, L0809: 1, H0144: 1, H0519: 1, H0684: 1, H0670: 1, H0539: 1, S0037: 1, L0744: 1, L0747: 1, L0750: 1, L0731: 1, L0757: 1 and S0242: 1.		
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1250	HLHEE38	824064	1260	270 - 323	3857				1, S0024: 1, H0179: 1, S0003: 1, H0673: 1, H0674: 1, H0212: 1, H0124: 1, S0366: 1, H0135: 1, H0551: 1, T0067: 1, H0264: 1, H0413: 1, H0641: 1, L0769: 1, L0637: 1, L0761: 1, L0667: 1, L0648: 1, L0521: 1, L0662: 1, L0767: 1, L0774: 1, L0775: 1, L0805: 1, L0655: 1, L0513: 1, L0659: 1, L0517: 1, L0647: 1, L0787: 1, L0666: 1, L0663: 1, S0428: 1, H0547: 1, H0519: 1, H0689: 1, H0435: 1, H0670: 1, H0539: 1, S0152: 1, L0777: 1, L0755: 1, L0757: 1, S0436: 1, S0276: 1 and H0543: 1.		
1251	HLHEI72	874180	1261	89 - 526	3858	Val-75 to Asp-82.			AR060: 5, AR316: 4, AR089: 2, L0439: 5, S0346: 2, S0040: 1, H0024: 1 and L0612: 1. AR313: 8, AR055: 7, AR052: 7, AR241: 6, AR312: 6, AR061: 5, AR053: 5, AR089: 5, AR184: 5, AR060: 5, AR296: 5, AR269: 5, AR270: 5, AR267: 5, AR282: 5, AR299: 4, AR182: 4, AR186: 4, AR263: 4, AR309: 4, AR247: 4, AR293: 4, AR213: 4, AR033: 4, AR310: 4, AR248: 4, AR266: 4, AR253: 4, AR185: 4, AR096: 4, AR265: 4, AR233: 4, AR298: 4, AR286: 4, AR238: 4, AR316: 4, AR104: 4, AR177: 3, AR251: 3, AR300: 3,		

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1252	HLHEX62	608285	1262	23 - 187	3859	Leu-25 to Gly-32.	H0024: 2, H0333: 1, H0575: 1, S0015: 1, L0662: 1, L0754: 1, H0445: 1 and L0605: 1.						
1253	HLHFK59	581065	1263	220 - 300	3860		H0024: 1, S0374: 1 and L0779: 1.						
1254	HLHFP09	805967	1264	133 - 228	3861		AR244: 15, AR263: 11, AR205: 11, AR202: 11, AR206: 11, AR246: 10, AR192: 9, AR243: 9, AR194: 9, AR055: 8, AR186: 8, AR039: 8, AR204: 8, AR265: 8, AR198: 8, AR310: 7, AR052: 7, AR282: 7, AR274: 7, AR183: 7, AR241: 7, AR275: 6, AR271: 6, AR312: 6,	20q13.1-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 256540, 600281, 600281, 602025				

1255	HLHGG78	638210	1265	461 - 532	3862				AR273: 6, AR313: 6, AR248: 6, AR061: 6, AR104: 6, AR277: 6, AR033: 6, AR292: 6, AR295: 5, AR309: 5, AR053: 5, AR294: 5, AR240: 5, AR238: 5, AR253: 5, AR293: 5, AR286: 5, AR175: 5, AR185: 5, AR213: 5, AR232: 5, AR249: 4, AR227: 4, AR289: 4, AR229: 4, AR284: 4, AR247: 4, AR096: 4, AR299: 4, AR285: 4, AR266: 4, AR231: 4, AR060: 4, AR316: 4, AR251: 4, AR300: 4, AR237: 4, AR226: 4, AR234: 4, AR177: 4, AR233: 3, AR290: 3, AR283: 3, AR256: 3, AR270: 3, AR258: 3, AR298: 3, AR268: 3, AR184: 3, AR089: 3, AR296: 3, AR219: 3, AR267: 3, AR259: 3, AR269: 3, AR291: 3, AR182: 2, AR218: 2, AR179: 1 H0013: 3, L0759: 2, S0046: 1, H0706: 1, H0123: 1, H0024: 1, H0591: 1, H0616: 1, H0100: 1, L0794: 1 and L0789: 1.			6p21.2	150270, 248611, 601690
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1256	HLHSG15	668247	1266	1368 - 1556	3863				3, L0754: 3, L0756: 3, L0779: 3, H0140: 2, S0346: 2, L0051: 2, S0426: 2, L0803: 2, L0783: 2, L0745: 2, L0747: 2, L0755: 2, L0759: 2, S0218: 1, H0657: 1, S0282: 1, S0376: 1, S0360: 1, H0580: 1, S0045: 1, S0046: 1, H0392: 1, H0497: 1, H0635: 1, H0575: 1, S0010: 1, S0049: 1, H0251: 1, H0123: 1, L0471: 1, H0024: 1, L0055: 1, H0124: 1, H0551: 1, H0412: 1, H0560: 1, H0561: 1, S0002: 1, L0763: 1, L0772: 1, L0374: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0782: 1, L0382: 1, L0664: 1, S0126: 1, H0659: 1, H0522: 1, S0044: 1, S3012: 1, L0439: 1, L0740: 1, S0260: 1, L0608: 1, L0604: 1 and L0366: 1.			8p22	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629
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1257	HLHSQ35	570814	1267	39 - 119	3864			H0581: 1, L0738: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, H0014: 1, T0010: 1, H0328: 1, H0039: 1, H0032: 1, S0036: 1, H0412: 1, H0623: 1, L0598: 1, L0520: 1, L0762: 1, L0763: 1, L0667: 1, L0372: 1, L0646: 1, L0771: 1, L0521: 1, L0766: 1, L0804: 1, L0651: 1, L0789: 1, L0792: 1, S0216: 1, H0144: 1, H0659: 1, H0670: 1, H0521: 1, S0044: 1, S0206: 1, S0032: 1, L0750: 1, L0779: 1, L0753: 1, L0758: 1, H0444: 1, L0588: 1, L0592: 1, H0665: 1, H0542: 1, H0543: 1 and H0506: 1.	
1258	HLHTB92	815305	1268	162 - 275	3865			H0208: 2 AR060: 6, AR316: 5, AR089: 4 H0208: 2, H0024: 2 and H0318: 1.	
1259	HLHTP55	847322	1269	161 - 292	3866			H0519: 2, S0116: 1, H0208: 1, S0010: 1, H0581: 1, S0366: 1, L0794: 1, S0378: 1 and H0136: 1.	
1260	HLIBD74	604914	1270	127 - 339	3867		Pro-2 to His-7, Ser-30 to Trp-36, Leu-59 to Ser-64.	H0355: 1	
1261	HLIBE41	772762	1271	198 - 299	3868			L0803: 3, L0804: 2, L0779: 2, L0758: 2, H0632: 1, H0057: 1, H0355: 1, H0551: 1, L0766: 1, L0776: 1, L0517: 1, L0666: 1, S0044: 1 and L0747: 1.	
1262	HLIBO16	780805	1272	467 - 538	3869			AR060: 16, AR316: 9, AR089: 1 H0355: 1, L0803: 1, L0804: 1, L0651: 1 and S0216: 1.	6q24.1-q25.1 133430, 133430, 180020, 600320, 600883
1263	HLJB122	658741	1273	416 - 592	3870		Ser-41 to Gln-48.	AR316: 2, AR089: 2, AR060: 2	16

1264	HLJEE16	847326	1274	38 - 124	3871	Gln-17 to Gly-22.	<p>H0556: 6, H0657: 6, L0761: 5, L0794: 5, L0655: 4, L0748: 4, L0777: 4, H0656: 3, H0634: 3, H0264: 3, L0731: 3, H0423: 3, H0140: 2, H0575: 2, H0318: 2, L0771: 2, L0766: 2, L0803: 2, S0374: 2, L0756: 2, H0422: 2, H0170: 1, H0265: 1, H0583: 1, H0650: 1, L0785: 1, S0116: 1, H0662: 1, S0358: 1, L0717: 1, H0486: 1, H0036: 1, H0581: 1, L0738: 1, H0050: 1, H0510: 1, H0375: 1, H0060: 1, H0090: 1, H0560: 1, H0641: 1, S0142: 1, S0002: 1, S0426: 1, L0772: 1, L0643: 1, L0764: 1, L0768: 1, L0387: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0664: 1, H0660: 1, H0518: 1, L0749: 1, L0759: 1 and H0445: 1.</p>	7q21.1-q31.1	126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447
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1265	HLLAX64	827292	1275	282 - 380	3872			1, L0771: 1, L0773: 1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1. AR089: 3, AR316: 3, AR060: 2 L0740: 8, L0749: 7, L0748: 5, L0752: 4, L0588: 4, L0774: 3, L0757: 3, L0759: 3, S0358: 2, L0773: 2, L0804: 2, L0775: 2, L0776: 2, L0783: 2, L0809: 2, L0666: 2, L0751: 2, L0750: 2, L0779: 2, S0040: 1, S0420: 1, S0376: 1, H0580: 1, H0415: 1, H0036: 1, S0346: 1, H0581: 1, T0110: 1, H0597: 1, H0530: 1, H0546: 1, H0123: 1, H0083: 1, H0354: 1, H0510: 1, H0090: 1, T0069: 1, H0560: 1, S0210: 1, L0763: 1, L0637: 1, L0772: 1, L0646: 1, L0800: 1, L0771: 1, L0662: 1, L0805: 1, L0659: 1, L0789: 1, H0691: 1, H0521: 1, H0576: 1, H0478: 1, H0626: 1, L0747: 1, L0777: 1, L0731: 1, H0444: 1, L0590: 1, L0592: 1, S0242: 1 and S0196: 1. AR089: 41, AR316: 29, AR060: 18 H0370: 1 and H0354: 1.		
1266	HLLAX95	588405	1276	99 - 239	3873			AR248: 102, AR251: 90, AR253: 53, AR205: 42, AR194: 38, AR039: 35, AR249: 35, AR282: 33, AR246: 30, AR202: 29, AR281: 24, AR241: 24, AR206: 24, AR315: 23, AR244: 22, AR299: 22, AR089: 22, AR243: 22,		
1267	HLLCD67	822855	1277	237 - 311	3874					

1268	HLMBX89	762967	1278	249 - 347	3875				AR192: 22, AR204: 20, AR300: 19, AR314: 19, AR271: 19, AR213: 19, AR198: 18, AR280: 18, AR316: 17, AR096: 17, AR283: 16, AR033: 15, AR310: 14, AR053: 14, AR240: 14, AR232: 13, AR313: 13, AR060: 13, AR265: 13, AR284: 13, AR270: 12, AR266: 12, AR275: 12, AR104: 12, AR295: 12, AR177: 12, AR052: 11, AR277: 11, AR247: 11, AR285: 10, AR291: 10, AR263: 10, AR273: 10, AR229: 10, AR290: 9, AR296: 9, AR289: 9, AR309: 9, AR274: 9, AR286: 9, AR312: 8, AR268: 8, AR226: 8, AR185: 8, AR238: 8, AR055: 8, AR175: 8, AR183: 8, AR231: 7, AR292: 7, AR269: 7, AR218: 7, AR234: 7, AR293: 7, AR298: 7, AR186: 7, AR184: 7, AR182: 6, AR237: 6, AR267: 6, AR258: 6, AR219: 6, AR227: 6, AR233: 6, AR294: 6, AR256: 6, AR179: 5, AR259: 4, AR061: 4 H0354: 1					
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1269	HLMBZ14	591271	1279	160 - 327	3876	Phe-25 to Pro-31.	AR060: 6, AR316: 4, AR089: 2 H0255: 2 and L0589: 1.  AR089: 17, AR316: 13, AR060: 10 L0794: 2, H0254: 1, H0305: 1, H0618: 1, H0038: 1, L0609: 1 and H0423: 1.			
1270	HLMCT51	772579	1280	63 - 92	3877		L0731: 21, L0747: 17, L0776: 16, L0748: 14, L0777: 14, L0752: 13, L0755: 13, L0769: 11, L0750: 11, L0766: 10, L0806: 8, L0770: 7, H0556: 5, L0599: 5, L0774: 4, L0756: 4, L0779: 4, L0753: 4, H0341: 3, L0761: 3, L0764: 3, L0771: 3, L0809: 3, H0144: 3, L0743: 3, L0754: 3, L0757: 3, H0265: 2, S0134: 2, H0306: 2, H0402: 2, H0580: 2, H0393: 2, H0369: 2, H0441: 2, H0013: 2, H0024: 2, H0051: 2, H0687: 2, H0031: 2, H0644: 2, H0135: 2, L0763: 2, L0662: 2, L0768: 2, L0794: 2, L0803: 2, L0775: 2, L0783: 2, H0521: 2, L0759: 2, L0587: 2, L0591: 2, L0603: 2, S0114: 1, S0218: 1, H0483: 1, H0254: 1, H0663: 1, S0046: 1, H0440: 1, H0411: 1, H0550: 1, H0370: 1, H0333: 1, H0574: 1, T0039: 1, H0036: 1, H0545: 1, H0150: 1, H0083: 1, H0399: 1, H0355: 1, H0179: 1, H0271: 1,			
1271	HLMCT95	570815	1281	195 - 347	3878					

1272	HLMDD65	566891	1282	183 - 287	3879	Lys-27 to Ser-34.	<p>H0615: 1, H0622: 1, T0006: 1, H0553: 1, H0166: 1, H0169: 1, H0674: 1, L0456: 1, S0036: 1, H0040: 1, H0634: 1, H0100: 1, H0560: 1, H0633: 1, H0695: 1, L0762: 1, L0640: 1, L0796: 1, L0641: 1, L0648: 1, L0767: 1, L0805: 1, L0606: 1, L0657: 1, L0659: 1, L0528: 1, L0532: 1, L0664: 1, L0665: 1, S0052: 1, S0330: 1, S0027: 1, L0740: 1, L0745: 1, L0749: 1, L0758: 1, H0445: 1, L0608: 1, L0595: 1, L0601: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and L0600: 1.</p>		
							<p>H0423: 16, H0521: 11, L0777: 10, H0622: 9, L0751: 9, H0641: 8, H0518: 8, L0596: 8, H0265: 7, H0039: 6, L0740: 6, H0543: 6, T0049: 5, L0770: 5, L0665: 5, L0757: 5, H0422: 5, H0556: 4, H0255: 4, H0046: 4, H0435: 4, L0731: 4, L0599: 4, H0254: 3, H0271: 3, H0090: 3, L0794: 3, L0766: 3, S0328: 3, H0522: 3, S0260: 3, H0224: 2, H0225: 2, H0713: 2, S0029: 2, S0376: 2, S0360: 2, S0132: 2, H0087: 2, H0494: 2, L0662: 2, L0806: 2, L0382: 2, L0438: 2, H0689: 2, H0670: 2, H0660: 2, L0748: 2, L0779: 2, S0436: 2, H0506: 2, T0002: 1, H0220: 1, H0159: 1, H0717: 1, S0114: 1, L0785: 1, H0341: 1, S0110: 1, H0671: 1, H0663: 1, H0402: 1, S0356: 1, S0358: 1, H0675: 1, H0676: 1, S0408: 1, H0722: 1, H0282: 1, H0632: 1, H0635:</p>		

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1273	HLMDH01	721522	1283	71 - 244	3880			H0254: 1 and H0543: 1.						
1274	HLMDU23	668248	1284	21 - 239	3881		Leu-49 to Ser-57.	H0254: 2						
1275	HLMFB62	604915	1285	268 - 315	3882			H0255: 1						
1276	HLMFG52	602166	1286	185 - 256	3883			H0255: 1						
1277	HLMFU53	801936	1287	520 - 699	3884		Ala-3 to Gly-10, Pro-23 to Gly-28, Cys-54 to Pro-59.	H0457: 8, L0751: 6, H0659: 4, H0617: 3, L0761: 3, L0794: 3, L0743: 3, L0749: 3, H0657: 2, H0549: 2, H0486: 2, L0764: 2, L0766: 2, L0655: 2, H0682: 2, H0521: 2, H0522: 2, L0744: 2, L0591: 2, H0543: 2, H0265: 1, T0049: 1, S0134: 1, H0650: 1, S0116: 1, H0255: 1, H0638: 1, S0358: 1, S0376: 1, H0637: 1, H0580: 1, S0045: 1, H0587: 1, T0060: 1, H0042: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0061: 1, H0266: 1, H0416: 1, L0055: 1, H0068: 1, H0090:						

1278	HLMHG68	580850	1288	141 - 401	3885	Met-1 to Pro-6, Thr-55 to Ala-65, Pro-67 to Cys-75.	1, H0551: 1, H0413: 1, H0494: 1, S0142: 1, H0538: 1, S0002: 1, H0695: 1, L0770: 1, L0769: 1, L0775: 1, L0776: 1, L0657: 1, L0666: 1, L0664: 1, H0703: 1, H0658: 1, H0670: 1, H0648: 1, H0539: 1, S0378: 1, L0779: 1, L0731: 1, L0601: 1 and H0423: 1.	20	
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1279	HLMHNO6	853606	1289	21 - 80	3886			H0255: 2, H0020: 1, H0163: 1 and L0766: 1.				
1280	HLMHS15	638212	1290	271 - 372	3887	Pro-14 to Gln-20.		AR089: 9, AR316: 8, AR060: 8 H0255: 3	17p13.2			
1281	HLMIM84	588487	1291	124 - 270	3888			L0769: 7, L0748: 4, L0759: 4, H0556: 3, H0038: 3, L0750: 3, S0356: 2, H0574: 2, L0163: 2, L0766: 2, L0776: 2, L0663: 2, L0752: 2, L0755: 2, L0731: 2, L0599: 2, H0254: 1, H0255:	2p24.3-p11.2	178640, 216900, 602134		

1282	HLMIN52	590735	1292	100 - 162	3889			1, H0306: 1, H0125: 1, S0376: 1, H0580: 1, H0455: 1, H0497: 1, H0331: 1, L0021: 1, H0004: 1, H0618: 1, S0010: 1, H0546: 1, H0545: 1, H0123: 1, H0081: 1, H0578: 1, H0051: 1, H0510: 1, H0188: 1, H0032: 1, H0169: 1, H0040: 1, T0042: 1, L0475: 1, H0560: 1, S0438: 1, H0132: 1, L0770: 1, L0372: 1, L0764: 1, L0771: 1, L0774: 1, L0809: 1, L0665: 1, L0438: 1, H0547: 1, H0435: 1, S0028: 1, L0439: 1, L0740: 1, L0779: 1, L0757: 1, L0758: 1, L0588: 1, L0605: 1, S0192: 1 and S0276: 1.		
1283	HLMIQ83	688050	1293	38 - 334	3890	Met-1 to Asp-7, Pro-35 to Asn-43, Leu-46 to Ile-51, Tyr-77 to Trp-92.		L0769: 5, S0045: 2, L0773: 2, L0775: 2, L0783: 2, L0809: 2, H0657: 1, H0341: 1, H0254: 1, H0255: 1, S0360: 1, H0208: 1, H0550: 1, H0052: 1, H0123: 1, H0673: 1, H0412: 1, H0413: 1, L0640: 1, L0763: 1, L0768: 1, L0794: 1, L0661: 1, L0665: 1, H0691: 1, H0690: 1, S0378: 1, H0521: 1, L0750: 1, L0777: 1, L0759: 1, S0436: 1, L0366: 1, S0242: 1 and S0424: 1.		
1284	HLMIW76	570816	1294	137 - 202	3891			H0255: 1		
1285	HLMMA65	780102	1295	131 - 163	3892			H0255: 2 and H0625: 1.		
1286	HLMMT12	805448	1296	295 - 411	3893			AR089: 24, AR316: 18, AR060: 13 H0255: 2, H0596: 1 and H0521: 1.		
1287	HLMNA19	826530	1297	445 - 624	3894	Gln-15 to Trp-24.		H0394: 1, H0255: 1 and		

1288	HLQAD72	853613	1298	142 - 567	3895	Ser-20 to Gly-25, His-36 to Cys-47, Ile-84 to Lys-90, Cys-103 to Arg-110.	H0266: 1. AR089: 18, AR316: 12, AR060: 5 L0748: 15, H0574: 8, L0731: 8, S0358: 7, H0427: 4, L0775: 4, L0755: 4, L0777: 3, H0632: 2, H0188: 2, H0628: 2, L0803: 2, L0774: 2, L0666: 2, S0374: 2, L0740: 2, L0750: 2, S0434: 2, L0581: 2, L0599: 2, H0583: 1, H0662: 1, H0580: 1, H0645: 1, H0369: 1, H0587: 1, H0331: 1, T0060: 1, S0280: 1, H0349: 1, H0575: 1, H0052: 1, H0251: 1, H0309: 1, H0596: 1, L0738: 1, H0545: 1, H0046: 1, H0050: 1, H0024: 1, H0355: 1, S0336: 1, H0687: 1, H0031: 1, H0553: 1, S0366: 1, H0598: 1, H0059: 1, S0464: 1, S0438: 1, H0646: 1, L0762: 1, L0645: 1, L0773: 1, L0659: 1, L0518: 1, L0783: 1, L0809: 1, L0529: 1, H0521: 1, H0478: 1, S014: 1, L0756: 1, L0779: 1, L0752: 1, L0758: 1 and S0192: 1.		
1289	HLQAM30	609880	1299	28 - 234	3896	Arg-7 to Lys-12.	H0556: 26, H0124: 7, H0265: 5, S0476: 5, L0591: 5, H0032: 4, L0662: 4, H0521: 4, H0171: 3, S0134: 3, S0354: 3, H0575: 3, H0050: 3, H0271: 3, H0031: 3, H0644: 3, H0135: 3, L0659: 3, H0539: 3, S014: 3, L0751: 3, L0750: 3, L0757: 3, L0596: 3, L0605: 3, H0542: 3, H0543: 3, H0422: 3, S0040: 2, S0442: 2, S0132: 2, H0431: 2, H0599: 2, H0036: 2, H0545: 2, H0123: 2, H0024: 2, H0375: 2, H0594: 2, H0328: 2, H0264: 2, H0059: 1 and S0192: 1.		



1290	HLQAM59	560662	1300	268 - 318	3897		2, T0041: 2, L0775: 2, L0543: 2, S0374: 2, H0435: 2, H0658: 2, S0380: 2, H0436: 2, S0027: 2, L0777: 2, L0755: 2, S0436: 2, L0592: 2, L0581: 2, L0594: 2, L0362: 2, H0423: 2, H0159: 1, H0716: 1, H0295: 1, T0049: 1, H0583: 1, H0656: 1, S0116: 1, S0212: 1, S0358: 1, S0360: 1, S0046: 1, H0619: 1, H0393: 1, S6016: 1, H0409: 1, H0586: 1, H0497: 1, H0331: 1, H0574: 1, H0486: 1, T0039: 1, H0013: 1, H0635: 1, H0427: 1, H0002: 1, T0082: 1, S0010: 1, H0318: 1, S0474: 1, H0581: 1, H0242: 1, H0014: 1, H0373: 1, H0051: 1, H0275: 1, H0355: 1, S6028: 1, H0179: 1, H0416: 1, S0022: 1, H0252: 1, L0483: 1, H0166: 1, H0169: 1, H0674: 1, L0455: 1, S0036: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0063: 1, H0551: 1, T0067: 1, H0623: 1, S0038: 1, H0366: 1, S0440: 1, H0509: 1, S0150: 1, H0641: 1, H0652: 1, S0002: 1, S0426: 1, L5565: 1, L0372: 1, L0642: 1, L0764: 1, L0766: 1, L0652: 1, L0527: 1, L0663: 1, H0660: 1, H0666: 1, S0328: 1, S0332: 1, H0522: 1, H0696: 1, S0044: 1, L0748: 1, L0745: 1, L0756: 1, L0779: 1, L0758: 1, L0759: 1, H0445: 1, L0608: 1, L0595: 1, S0106: 1 and H0506: 1.		
1291	HLQBB23	745364	1301	568 - 657	3898	AR089: 22, AR316: 16, AR060: 11 H0331: 1	AR089: 15, AR316: 13,		

1292	HLQBF05	604916	1302	95 - 193	3899			AR060: 11 L0748: 36, L0754: 15, L0749: 7, L0438: 5, L0439: 4, S0436: 4, H0574: 3, L0794: 3, S0222: 2, S0010: 2, L0769: 2, L0772: 2, H0662: 1, S0356: 1, S0354: 1, S0358: 1, S0360: 1, H0722: 1, H0261: 1, H0331: 1, S0049: 1, H0052: 1, H0178: 1, H0057: 1, H0051: 1, S0628: 1, H0030: 1, H0553: 1, L0142: 1, L0456: 1, L0351: 1, S0438: 1, L0764: 1, L0806: 1, L4501: 1, L0741: 1, L0744: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1 and L0758: 1.		
1293	HLQBX64	772803	1303	810 - 857	3900			H0331: 1 and H0059: 1. S0438: 30, L0581: 11, L0775: 10, L0666: 10, H0722: 8, L0804: 7, L0665: 7, L0362: 6, H0331: 4, H0574: 4, H0670: 4, L0754: 4, L0755: 4, L0766: 3, L0664: 3, H0015: 2, H0355: 2, H0510: 2, S0440: 2, L0794: 2, L0657: 2, H0689: 2, H0658: 2, H0672: 2, L0439: 2, L0751: 2, S0412: 2, H0685: 1, S0040: 1, H0638: 1, H0393: 1, H0642: 1, H0632: 1, H0635: 1, H0042: 1, H0318: 1, H0014: 1, S0003: 1, H0252: 1, H0615: 1, H0039: 1, H0714: 1, H0633: 1, L0762: 1, L0803: 1, L0774: 1, L0655: 1, L0527: 1, L0659: 1, L0647: 1, L0788: 1, L0663: 1, H0519: 1, H0593: 1, H0682: 1, H0659: 1, H0666: 1, H0648: 1, S0330: 1, S0404: 1, L0744: 1, L0748: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, S0436: 1, L0595:		

1294	HLQCY09	745384	1304	120 - 338	3901	Asp-34 to Arg-40, Phe-45 to Ser-62.	1 and S0458: 1. H0574: 1 and S0436: 1.		
1295	HLQ CZ43	608174	1305	377 - 490	3902	Gln-20 to Gln-28.	L0777: 9, L0663: 4, L0748: 4, L0803: 3, H0485: 2, L0598: 2, L0770: 2, L0804: 2, S0378: 2, L0747: 2, L0731: 2, H0624: 1, H0619: 1, H0574: 1, H0599: 1, H0622: 1, H0644: 1, H0032: 1, H0623: 1, L0764: 1, L0767: 1, L0629: 1, L0659: 1, L0787: 1, L0664: 1, H0659: 1, L0749: 1, L0779: 1, L0780: 1, L0755: 1 and L0593: 1.		
1296	HLQ CZ80	787112	1306	327 - 404	3903		S0438: 7, H0574: 5, H0510: 5, L0748: 4, L0749: 2, H0331: 1, H0632: 1, L0021: 1, H0714: 1, S0440: 1, H0509: 1, S0436: 1 and L0581: 1.	4q21-q24	104500, 125490, 147790, 157147, 173910, 248510, 252500, 252500
1297	HLQDK45	621414	1307	95 - 187	3904	Pro-20 to Leu-28.	L0783: 2, H0574: 1, L0664: 1 and H0506: 1.	8p12-pl1	152760, 173370, 180100, 185430, 270800, 277700
1298	HLQDM47	743237	1308	115 - 315	3905	Gln-34 to Tyr-45.	H0574: 1	15q22	102578, 109700, 151670, 154550, 601780
1299	HLQDU77	607495	1309	181 - 393	3906	Ala-39 to Gln-44, Thr-50 to Ser-63.	L0517: 3, H0687: 2, L0747: 2, H0392: 1, H0574: 1, H0156: 1, S0050: 1, H0644: 1, L0763: 1, L0767: 1, L0766: 1, L0749: 1, L0756: 1, L0777: 1, L0752: 1, L0731: 1, L0759: 1 and S0192: 1.		
1300	HLSAD72	588406	1310	113 - 205	3907		AR089: 21, AR316: 17, AR060: 13 H0540: 1		
1301	HLTCJ67	567284	1311	246 - 308	3908		H0090: 1 and L0779: 1.		
1302	HLTCM28	612810	1312	99 - 155	3909		AR310: 7, AR312: 7, AR055: 6, AR053: 6, AR052: 6, AR204: 6,		

1303	HLTCO22	780428	1313	758 - 886	3910	Thr-36 to Asn-41.	AR246: 6, AR061: 5, AR309: 5, AR182: 5, AR265: 5, AR185: 5, AR269: 4, AR186: 4, AR060: 4, AR299: 4, AR206: 4, AR247: 4, AR213: 3, AR273: 3, AR096: 3, AR290: 3, AR184: 3, AR275: 3, AR277: 3, AR300: 3, AR270: 3, AR198: 3, AR033: 3, AR253: 3, AR251: 3, AR316: 3, AR296: 3, AR192: 3, AR282: 3, AR313: 3, AR283: 3, AR295: 3, AR274: 3, AR175: 3, AR286: 2, AR293: 2, AR289: 2, AR089: 2, AR292: 2, AR298: 2, AR285: 2, AR263: 2, AR268: 2, AR227: 2, AR039: 2, AR205: 2, AR294: 2, AR284: 2, AR237: 2, AR238: 2, AR291: 1, AR183: 1, AR104: 1, AR259: 1, AR232: 1, AR240: 1, AR233: 1, AR267: 1, AR226: 1, AR177: 1, AR258: 1, AR243: 1, AR231: 1 L0763: 3, H0090: 2, T0002: 1, H0485: 1, H0063: 1, H0649: 1, L0655: 1 and H0422: 1.		
							L0766: 4, L0742: 4, L0794: 3, L0759: 3, L0005: 2, S0422: 2, L0756: 2, L0731: 2, S0276: 2, H0422: 2, S0040: 1, H0728: 1, H0733: 1, H0586: 1, H0486:		

1304	HLTDA14	804545	1314	99 - 251	3911			1, S0388: 1, S0003: 1, H0615: 1, H0039: 1, H0090: 1, H0059: 1, H0560: 1, L0637: 1, L0646: 1, L0648: 1, L0649: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0659: 1, L0666: 1, H0144: 1, H0539: 1, L0779: 1, L0596: 1, S0192: 1 and H0423: 1.		
1305	HLTDC26	732137	1315	120 - 233	3912			H0090: 1 L0740: 9, L0766: 4, L0758: 4, H0521: 3, L0749: 3, H0581: 2, H0271: 2, L0754: 2, L0755: 2, S0114: 1, H0583: 1, L0785: 1, S0278: 1, H0575: 1, H0421: 1, S0388: 1, H0375: 1, S0003: 1, S0214: 1, T0006: 1, H0090: 1, H0641: 1, S0426: 1, L0770: 1, L0803: 1, L0607: 1, L0541: 1, H0522: 1, L0750: 1, L0599: 1 and H0543: 1.	9	
1306	HLTDC26	859069	1316	120 - 233	3913			L0740: 9, L0766: 4, L0758: 4, H0521: 3, L0749: 3, H0581: 2, H0271: 2, L0754: 2, L0755: 2, S0114: 1, H0583: 1, L0785: 1, S0278: 1, H0575: 1, H0421: 1, S0388: 1, H0375: 1, S0003: 1, S0214: 1, T0006: 1, H0090: 1, H0641: 1, S0426: 1, L0770: 1, L0803: 1, L0607: 1, L0541: 1, H0522: 1, L0750: 1, L0599: 1 and H0543: 1.	9	
1307	HLTDI20	610269	1317	520 - 636	3914			AR089: 10, AR316: 9, AR060: 7 H0423: 13, L0794: 8, H0422: 8, H0090: 7, H0543: 7, H0555: 6, H0641: 5, H0486: 4, H0581: 4, H0622: 4, H0521: 4, L0439: 4, L0747: 4, L0777: 4, H0657: 3, S0442: 3, S0354: 3, S0222: 3, H0135: 3, H0560: 3, L0665: 3.	17	

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1308	HLTDI65	740756	1318	127 - 231	3915			S0196: 1. AR089: 12, AR316: 9, AR060: 6 H0090: 1			
1309	HLTDK30	834810	1319	761 - 1183	3916		Tyr-31 to Trp-37, Glu-87 to Trp-95.	AR060: 4, AR316: 4, AR089: 3 L0439: 5, L0747: 5, L0731: 4, L0499: 2, L0774: 2, L0805: 2, L0665: 2, L0438: 2, L0743: 2, L0744: 2, L0757: 2, L0759: 2, H0556: 1, H0713: 1, H0583: 1, S0045: 1, H0587: 1, H0486: 1, H0599: 1, H0581: 1, H0530: 1, H0544: 1, H0163: 1, H0090: 1, H0100: 1, L0770: 1, L5566: 1, L0364: 1, L0649: 1, L0803: 1, L0659: 1, L0809: 1, L0789: 1, L0352: 1, S0380: 1, L0749: 1, L0750: 1, L0758: 1, L0581: 1 and H0667: 1.			
1310	HLTDL37	638213	1320	55 - 90	3917			S0212: 8, S0126: 8, H0644: 7, L0803: 7, S0242: 7, S0358: 5, H0031: 5, H0551: 5, L0770: 5, L0794: 5, H0436: 5, L0439: 5, L0759: 5, L0717: 4, H0052: 4, L0662: 4, L0438: 4, H0547: 4, H0521: 4, L0747: 4, L0731: 4, H0685: 3, S0360: 3, H0318: 3, H0083: 3, H0553: 3, H0561: 3, L0646: 3, L0768: 3, L0657: 3, H0539: 3, L0740: 3, L0755: 3, S0031: 3, S0196: 3, S0040: 2, H0656: 2, H0341: 2, H0254: 2, S0420: 2, S0046: 2, S0222: 2, H0370: 2, T0039: 2, H0156: 2, H0599: 2, H0581: 2, H0421: 2, H0545: 2, H0620: 2, H0024: 2, H0014: 2, H0510: 2, S0250: 2, S0003: 2, H0039: 2, H0622: 2, H0412: 2, H0494: 2, H0560:	7		

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1311	HLTDU35	827293	1321	53 - 154	3918			1, L0788: 1, L0663: 1, L0664: 1, L0665: 1, H0702: 1, S0374: 1, H0520: 1, H0593: 1, S0378: 1, H0134: 1, H0214: 1, S0406: 1, H0555: 1, H0627: 1, S0390: 1, S0028: 1, L0749: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0780: 1, L0596: 1, L0590: 1, L0594: 1, S0026: 1, H0136: 1, S0192: 1, S0042: 1, S0424: 1 and H0352: 1.		
								H0046: 41, L0803: 9, L0439: 9, L0438: 8, L0766: 4, H0648: 4, S0010: 3, H0090: 3, L0770: 3, L0794: 3, L0805: 3, L0779: 3, L0758: 3, H0445: 3, S0222: 2, S0346: 2, L0471: 2, S0628: 2, S0003: 2, L0776: 2, L0665: 2, H0660: 2, L0745: 2, L0752: 2, L0731: 2, L0757: 2, L0596: 2, L0592: 2, L0615: 1, S0114: 1, S0134: 1, H0650: 1, H0669: 1, S0354: 1, S0358: 1, H0152: 1, S0622: 1, H0632: 1, H0013: 1, H0036: 1, H0004: 1, H0123: 1, H0373: 1, S0051: 1, H0292: 1, H0040: 1, T0067: 1, H0059: 1, S0464: 1, S0150: 1, S0422: 1, L0637: 1, L0641: 1, L0764: 1, L0768: 1, L0804: 1, L0659: 1, L0518: 1, L0809: 1, L0647: 1, L0666: 1, H0520: 1, H0672: 1, H0539: 1, L0748: 1, L0366: 1, H0423: 1 and H0506: 1.		
1312	HLTDX04	596818	1322	71 - 310	3919	Pro-2 to Gly-8.		L0779: 6, L0766: 5, L0747: 4, L0742: 3, H0652: 2, L0518: 2, L0438: 2, H0657: 1, S0222: 1, H0486: 1, H0599: 1, H0057: 1, H0598: 1, S0036: 1, H0090: 1, H0100: 1, H0132: 1, L0770: 1	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602447

1313	HLTEH84	782094	1323	88 - 183	3920		1, L0803: 1, L0774: 1, L0776: 1, L0666: 1, H0520: 1, S0126: 1, H0689: 1, L0750: 1, L0759: 1, S0026: 1, H0653: 1 and S0412: 1.		
							L0662: 2, L0751: 2, L0591: 2, H0265: 1, S0358: 1, H0331: 1, H0486: 1, H0286: 1, H0644: 1, H0090: 1, H0100: 1, S0142: 1, L0638: 1, L0648: 1, L0666: 1, L0748: 1 and S0398: 1.		
1314	HLTEL39	853615	1324	210 - 215	3921		AR089: 12, AR316: 9, AR060: 8 L0663: 2, H0373: 1, H0090: 1, S0422: 1, L0763: 1, S0052: 1, L0740: 1, L0749: 1 and L0779: 1.		
1315	HLTEN11	772547	1325	122 - 193	3922	Met-1 to Asn-7.	AR089: 12, AR316: 12, AR060: 12 L0766: 10, L0439: 10, L0748: 7, L0805: 6, L0745: 6, H0031: 4, L0438: 4, L0747: 4, L0758: 4, S0412: 4, H0587: 3, H0013: 3, H0052: 3, L0662: 3, L0803: 3, L0756: 3, S0007: 2, H0208: 2, H0619: 2, H0050: 2, L0794: 2, L0649: 2, L0791: 2, L0792: 2, S0378: 2, L0742: 2, L0596: 2, L0599: 2, H0656: 1, S0116: 1, S0001: 1, S0420: 1, S0376: 1, S0360: 1, H0574: 1, H0486: 1, H0156: 1, H0036: 1, S0010: 1, H0024: 1, H0328: 1, H0688: 1, T0023: 1, T0006: 1, H0644: 1, L0143: 1, H0090: 1, H0264: 1, S0002: 1, L0762: 1, L0763: 1, L0770: 1, L0638: 1, L0637: 1, L0764: 1, L0804: 1, L0776: 1, L0606: 1, L0659: 1, L0809: 1, L0666: 1, L0663: 1,	3p25.3-p24.1	193300, 193300, 227646, 601154

								S0148: 1, H0659: 1, S0330: 1, S0044: 1, L0751: 1, L0750: 1, L0779: 1, L0752: 1, L0759: 1, L0595: 1, S0106: 1, S0026: 1 and S0194: 1.			
1316	HLTEW52	663148	1326	251 - 358	3923			H0090: 1			
1317	HLTEZ36	821676	1327	218 - 247	3924			L0748: 5, H0556: 3, H0553: 3, H0090: 2, H0667: 2, H0265: 1, S0132: 1, H0331: 1, H0574: 1, H0013: 1, H0042: 1, H0581: 1, H0012: 1, H0014: 1, H0510: 1, H0030: 1, H0144: 1 and L0749: 1.			
1318	HLTGG14	824068	1328	229 - 297	3925			AR089: 10, AR316: 10, AR060: 9 H0591: 155, L0748: 6, H0521: 4, L0759: 4, S0426: 3, S0344: 2, H0144: 2, L0744: 2, L0439: 2, H0716: 1, H0295: 1, H0255: 1, H0305: 1, H0638: 1, S0045: 1, H0411: 1, S0278: 1, H0549: 1, H0156: 1, H0230: 1, H0309: 1, H0544: 1, L0157: 1, S0051: 1, L0483: 1, S0364: 1, H0189: 1, H0413: 1, T0069: 1, S0422: 1, S0002: 1, L0369: 1, L0796: 1, L0794: 1, L0775: 1, L0666: 1, H0519: 1, H0659: 1, S3014: 1, L0749: 1, H0595: 1, S0436: 1, L0584: 1, L0592: 1, S0011: 1 and H0423: 1.			
1319	HLUAF94	794116	1329	257 - 268	3926			H0318: 1 and H0342: 1.			
1320	HLWAH33	855954	1330	117 - 230	3927		Gly-20 to Lys-29.	L0754: 43, L0748: 16, H0553: 15, L0755: 8, H0030: 4, L0142: 4, L0603: 4, H0031: 2, H0644: 2, H0100: 1 and L0777: 1.	9q33.1	268900	
1321	HLWAO11	885339	1331	63 - 194	3928			AR216: 16, AR177: 15, AR183: 15, AR269: 15,			

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Parameter	Value	Unit
Initial concentration	1.0	g/L
Initial pH	7.0	
Temperature	25	°C
Time	0-120	min
Agitation speed	150	rpm
Batch size	100	mL
Adsorbent dose	0.1-1.0	g/L
Adsorbent type	Activated carbon	
Adsorbent surface area	1000	m <sup>2</sup> /g
Adsorbent pore volume	0.5	cm <sup>3</sup> /g
Adsorbent density	0.5	g/cm <sup>3</sup>
Adsorbent particle size	0.15-0.25	mm
Adsorbent batch	1	
Adsorbent source	Commercial	
Adsorbent treatment	None	
Adsorbent storage	Room temperature	
Adsorbent handling	Standard	
Adsorbent disposal	Standard	
Adsorbent reuse	Standard	
Adsorbent regeneration	Standard	
Adsorbent monitoring	Standard	
Adsorbent maintenance	Standard	
Adsorbent safety	Standard	
Adsorbent quality	Standard	
Adsorbent quantity	Standard	
Adsorbent quality control	Standard	
Adsorbent quantity control	Standard	
Adsorbent quality assurance	Standard	
Adsorbent quantity assurance	Standard	
Adsorbent quality management	Standard	
Adsorbent quantity management	Standard	
Adsorbent quality improvement	Standard	
Adsorbent quantity improvement	Standard	
Adsorbent quality optimization	Standard	
Adsorbent quantity optimization	Standard	
Adsorbent quality validation	Standard	
Adsorbent quantity validation	Standard	
Adsorbent quality verification	Standard	
Adsorbent quantity verification	Standard	
Adsorbent quality documentation	Standard	
Adsorbent quantity documentation	Standard	
Adsorbent quality reporting	Standard	
Adsorbent quantity reporting	Standard	
Adsorbent quality communication	Standard	
Adsorbent quantity communication	Standard	
Adsorbent quality collaboration	Standard	
Adsorbent quantity collaboration	Standard	
Adsorbent quality partnership	Standard	
Adsorbent quantity partnership	Standard	
Adsorbent quality alliance	Standard	
Adsorbent quantity alliance	Standard	
Adsorbent quality consortium	Standard	
Adsorbent quantity consortium	Standard	
Adsorbent quality network	Standard	
Adsorbent quantity network	Standard	
Adsorbent quality forum	Standard	
Adsorbent quantity forum	Standard	
Adsorbent quality association	Standard	
Adsorbent quantity association	Standard	
Adsorbent quality organization	Standard	
Adsorbent quantity organization	Standard	
Adsorbent quality institution	Standard	
Adsorbent quantity institution	Standard	
Adsorbent quality center	Standard	
Adsorbent quantity center	Standard	
Adsorbent quality institute	Standard	
Adsorbent quantity institute	Standard	
Adsorbent quality laboratory	Standard	
Adsorbent quantity laboratory	Standard	
Adsorbent quality department	Standard	
Adsorbent quantity department	Standard	
Adsorbent quality division	Standard	
Adsorbent quantity division	Standard	
Adsorbent quality section	Standard	
Adsorbent quantity section	Standard	
Adsorbent quality unit	Standard	
Adsorbent quantity unit	Standard	
Adsorbent quality group	Standard	
Adsorbent quantity group	Standard	
Adsorbent quality team	Standard	
Adsorbent quantity team	Standard	
Adsorbent quality project	Standard	
Adsorbent quantity project	Standard	
Adsorbent quality task	Standard	
Adsorbent quantity task	Standard	
Adsorbent quality job	Standard	
Adsorbent quantity job	Standard	
Adsorbent quality role	Standard	
Adsorbent quantity role	Standard	
Adsorbent quality position	Standard	
Adsorbent quantity position	Standard	
Adsorbent quality title	Standard	
Adsorbent quantity title	Standard	
Adsorbent quality rank	Standard	
Adsorbent quantity rank	Standard	
Adsorbent quality grade	Standard	
Adsorbent quantity grade	Standard	
Adsorbent quality level	Standard	
Adsorbent quantity level	Standard	
Adsorbent quality stage	Standard	
Adsorbent quantity stage	Standard	
Adsorbent quality phase	Standard	
Adsorbent quantity phase	Standard	
Adsorbent quality period	Standard	
Adsorbent quantity period	Standard	
Adsorbent quality interval	Standard	
Adsorbent quantity interval	Standard	
Adsorbent quality range	Standard	
Adsorbent quantity range	Standard	
Adsorbent quality span	Standard	
Adsorbent quantity span	Standard	
Adsorbent quality scope	Standard	
Adsorbent quantity scope	Standard	
Adsorbent quality domain	Standard	
Adsorbent quantity domain	Standard	
Adsorbent quality field	Standard	
Adsorbent quantity field	Standard	
Adsorbent quality area	Standard	
Adsorbent quantity area	Standard	
Adsorbent quality region	Standard	
Adsorbent quantity region	Standard	
Adsorbent quality territory	Standard	
Adsorbent quantity territory	Standard	
Adsorbent quality jurisdiction	Standard	
Adsorbent quantity jurisdiction	Standard	
Adsorbent quality sovereignty	Standard	
Adsorbent quantity sovereignty	Standard	
Adsorbent quality independence	Standard	
Adsorbent quantity independence	Standard	
Adsorbent quality freedom	Standard	
Adsorbent quantity freedom	Standard	
Adsorbent quality autonomy	Standard	
Adsorbent quantity autonomy	Standard	
Adsorbent quality self-governance		

1322	HLWAW73	664491	1332	676 - 834	3929	Ala-22 to Gly-28.	AR198: 3, AR308: 3, AR231: 3, AR253: 3, AR283: 3, AR166: 3, AR287: 3, AR285: 3, AR238: 2, AR185: 2, AR197: 2, AR271: 2, AR039: 2, AR033: 2, AR234: 2, AR239: 2, AR282: 2, AR286: 2, AR243: 2, AR232: 2, AR230: 2, AR293: 2, AR200: 2, AR257: 2, AR104: 2, AR227: 2, AR296: 1, AR061: 1, AR294: 1, AR258: 1, AR260: 1, AR237: 1, AR226: 1, AR229: 1 L0754: 14, L0777: 13, H0553: 10, L0600: 7, L0748: 6, H0717: 5, H0713: 4, L0803: 4, L0749: 4, UNKWN: 4, H0624: 3, S0280: 3, L0565: 3, S0126: 3, L0747: 3, S0212: 2, S0282: 2, H0024: 2, H0030: 2, H0031: 2, H0040: 2, L0438: 2, S0028: 2, L0743: 2, L0596: 2, L0603: 2, H0270: 1, H0244: 1, H0427: 1, H0251: 1, H0309: 1, S0338: 1, S0340: 1, S0250: 1, H0252: 1, H0039: 1, L0143: 1, H0038: 1, L0659: 1, H0593: 1, H0684: 1, H0518: 1, S0390: 1, S0260: 1 and H0506: 1. L0439: 15, H0556: 12, H0266: 11, L0755: 9, L0731: 9, H0264: 8, L0766: 8, H0521: 8, L0752: 8, H0634: 7, S0028: 7, H0012: 6, L0748: 6, L0758: 6, L0666: 5, L0754: 5, S0360: 4, H0623: 4, L0665: 4, L0740:					
							17p13.2					

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1323	HLWAX50	809094	1333	178 - 297	3930			1, L0598: 1, L0638: 1, L5575: 1, L0761: 1, L0372: 1, L0768: 1, L0649: 1, L0560: 1, L0386: 1, L0775: 1, L0806: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0379: 1, L0807: 1, L0659: 1, L0517: 1, L0518: 1, L0783: 1, L0809: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, H0547: 1, H0684: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, S0404: 1, H0478: 1, S0390: 1, S0027: 1, S0032: 1, L0743: 1, L0744: 1, L0757: 1, L0759: 1, H0707: 1, S0434: 1, H0136: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1.			
1324	HLWBK16	840369	1334	46 - 264	3931	Thr-66 to Lys-72.		H0553: 35, L0754: 33, H0030: 20, L0755: 11, L0603: 9, L0748: 7, H0644: 6, H0031: 5, L0142: 4, H0100: 2, S0454: 2, H0251: 1, H0551: 1 and H0008: 1.	10q26.3	263700	
1325	HLWBK16	638217	1335	492 - 527	3932			L0439: 5, H0624: 4, H0052: 3, H0553: 3, L0761: 2, L0803: 2, L0657: 2, L0756: 2, L0758: 2, H0583: 1, H0656: 1, H0208: 1, H0253: 1, H0009: 1, H0012: 1, H0015: 1, S0051: 1, H0428: 1, H0641: 1, H0529: 1, L0769: 1, L0772: 1, L0794: 1, L0804: 1, L0775: 1, L0530: 1, L0789: 1, L0791: 1, L0665: 1, H0658: 1, H0555: 1 and L0747: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040	
1326	HLWCC11	847401	1336	73 - 168	3933	Gly-2 to Lys-10.		AR060: 2, AR316: 1, S0045: 1, H0369: 1, H0587: 1, H0553: 1, L0550: 1, L0533: 1 and L0523: 1.	3p14.3	150250, 164500, 277730, 600971, 601226	
								H0670: 2, H0553: 1 and L0438: 1.			

1327	HL YAH81	559150	1337	254 - 274	3934		H0445: 1		
1328	HL YAH92	607801	1338	211 - 309	3935		H0445: 1		
1329	HL YAJ79	608289	1339	162 - 263	3936	Gln-28 to Phe-33.	S0388: 5, H0594: 4, S0282: 3, H0598: 3, S0344: 3, S0136: 3, H0395: 2, S0280: 2, H0597: 2, S0194: 2, H0543: 2, H0510: 1, H0316: 1, S0036: 1, H0538: 1, S0260: 1, H0445: 1, H0595: 1 and S0412: 1.		
1330	HL YAL28	567421	1340	404 - 565	3937		AR060: 2, AR316: 2, AR089: 1 H0445: 1		
1331	HL YAR30	781249	1341	562 - 852	3938	Ala-2 to Arg-10, Arg-77 to Arg-97.	AR089: 13, AR316: 10, AR060: 7 L0759: 4, L0657: 3, L0789: 3, L0439: 3, L0752: 3, L0758: 3, S0360: 2, L0805: 2, L0438: 2, L0750: 2, L0777: 2, H0423: 2, H0171: 1, H0638: 1, H0351: 1, H0178: 1, H0606: 1, L0625: 1, L0769: 1, L0771: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0650: 1, L0774: 1, L0659: 1, L0809: 1, L0663: 1, H0436: 1, L0748: 1, L0740: 1, H0445: 1, L0604: 1 and H0422: 1.		
1332	HL YAT54	581067	1342	195 - 263	3939		H0589: 1, L0761: 1, H0445: 1 and H0423: 1.		
1333	HL YBC81	588490	1343	89 - 112	3940		AR089: 11, AR316: 7, AR060: 4 S0040: 1, H0553: 1, L0803: 1 and H0445: 1.		
1334	HL YBD09	610019	1344	90 - 182	3941		H0445: 1		
1335	HL YBL67	834538	1345	497 - 586	3942		AR089: 3, AR316: 2, AR060: 1 H0445: 1 and L0097: 1.		
1336	HL YBM38	608154	1346	223 - 339	3943		S0408: 4, H0657: 1, L0770: 1, L0775: 1 and H0445: 1.		
1337	HL YBN23	667995	1347	324 - 344	3944		AR089: 18, AR316: 12,		



1338	HL YBN71	604785	1348	237 - 341	3945	Pro-21 to Ser-27.	AR060: 7 H0306: 1, H0402: 1, H0271: 1, H0695: 1, L0667: 1, L0662: 1, H0445: 1 and H0422: 1.		
1339	HL YBS25	726713	1349	48 - 152	3946	Ser-20 to Phe-25.	H0445: 1 L0766: 5, H0663: 1, H0574: 1, H0581: 1, L0667: 1, L0642: 1, L0768: 1, L0779: 1, L0777: 1 and H0445: 1.		
1340	HL YBT28	608152	1350	245 - 346	3947		H0445: 1		
1341	HL YBU15	598901	1351	369 - 584	3948		L0527: 1 and H0445: 1.	6	
1342	HL YBY04	596819	1352	188 - 250	3949		H0445: 1		
1343	HL YCE15	621407	1353	22 - 129	3950		S0422: 3, H0339: 1, H0444: 1 and H0445: 1.		
1344	HL YCH04	608295	1354	49 - 150	3951	Gln-17 to Thr-29.	H0445: 1		
1345	HL YCY48	607489	1355	296 - 445	3952		H0445: 1		
1346	HL YDE38	735987	1356	180 - 272	3953		H0445: 2 and L0523: 1.		
1347	HL YDG55	835625	1357	220 - 309	3954		H0445: 1		
1348	HL YDO73	584787	1358	233 - 271	3955		H0445: 1		
1349	HL YEA60	685469	1359	427 - 672	3956	Met-34 to Ser-39, Leu-44 to Cys-49.	AR089: 5, AR316: 3, AR060: 2 L0748: 6, L0747: 5, L0005: 4, L0766: 4, L0142: 3, L0740: 3, L0749: 3, L0779: 3, H0318: 2, S0003: 2, L0769: 2, L0777: 2, L0752: 2, L0757: 2, H0664: 1, S0222: 1, H0431: 1, H0331: 1, H0156: 1, H0596: 1, S6028: 1, S0314: 1, H0615: 1, L0143: 1, L0055: 1, T0041: 1, L0369: 1, L0662: 1, L0794: 1, L0804: 1, L0775: 1, L0527: 1, L0666: 1, L0665: 1, H0144: 1, H0672: 1, H0522: 1, L0731: 1, L0758: 1, H0445: 1, S0394: 1, L0608: 1, S0192: 1, H0543: 1 and L0697: 1.		
1350	HL YEJ14	853362	1360	94 - 1656	3957	Asn-39 to Gln-47, Asp-99 to Val-105,	AR248: 15, AR249: 6, AR096: 6, AR183: 5,	6q23-q24	107470, 107470, 107470, 121014,

						Pro-109 to Gly-117, Gly-141 to Gly-157, Val-190 to Glu-195, Val-332 to Phe-337, Gly-392 to Trp-399, Val-465 to Ser-470.		AR310: 4, AR184: 4, AR246: 3, AR270: 3, AR229: 3, AR234: 3, AR312: 2, AR253: 2, AR237: 2, AR238: 2, AR313: 2, AR053: 2, AR284: 2, AR290: 2, AR226: 2, AR192: 2, AR213: 2, AR292: 1, AR247: 1, AR268: 1, AR293: 1, AR231: 1, AR052: 1, AR316: 1, AR294: 1, AR295: 1, AR240: 1, AR309: 1, AR282: 1 L0655: 3, S0052: 3, H0657: 2, H0656: 2, L0766: 2, S0436: 2, H0583: 1, H0305: 1, H0411: 1, H0004: 1, H0581: 1, H0421: 1, H0629: 1, H0179: 1, H0169: 1, L0387: 1, L0775: 1, L0652: 1, L0659: 1, S0428: 1, H0660: 1, H0445: 1 and H0595: 1.		142470, 156225, 164200, 164200, 207800, 254780, 600320, 601316, 601410, 601757, 602067
1351	HLYE/44	838149	1361	124 - 237	3958	Cys-31 to Leu-37.		AR060: 7, AR316: 5, AR089: 1 L0803: 7, L0794: 6, H0617: 5, L0759: 5, H0722: 2, H0550: 2, H0581: 2, H0135: 2, L0774: 2, H0543: 2, S0444: 1, H0559: 1, H0253: 1, H0046: 1, H0083: 1, H0087: 1, T0041: 1, T0042: 1, H0529: 1, L0761: 1, L0643: 1, L0766: 1, L0657: 1, L0659: 1, L0791: 1, H0520: 1, S0378: 1, S0406: 1, L0611: 1, L0749: 1, H0445: 1 and H0506: 1.		
1352	HLYE/51	607815	1362	20 - 127	3959			H0445: 1		
1353	HLYG/19	826334	1363	2789 - 2929	3960	Gln-26 to Lys-47.		AR089: 8, AR316: 6, AR060: 4 L0756: 6, L0455: 5, L0752:		

1354	HMA BK52	853363	1364	235 - 375	3961	Ser-20 to Gly-25.	5, L0757: 5, H0457: 4, L0770: 4, L0769: 4, L0655: 4, L0731: 4, H0686: 3, H0581: 3, L0659: 3, L0666: 3, H0658: 3, L0747: 3, L0749: 3, H0445: 3, L0588: 3, H0542: 3, H0251: 2, H0546: 2, H0413: 2, L0772: 2, L0794: 2, L0652: 2, L0776: 2, L0657: 2, L0663: 2, L0438: 2, H0689: 2, H0521: 2, L0439: 2, L0745: 2, L0590: 2, L0581: 2, L0599: 2, H0265: 1, S0114: 1, H0656: 1, H0661: 1, H0306: 1, L0562: 1, S0356: 1, S0360: 1, H0580: 1, S0046: 1, H0462: 1, H0392: 1, H0592: 1, H0486: 1, H0618: 1, T0048: 1, H0318: 1, H0421: 1, H0545: 1, H0150: 1, T0010: 1, S6028: 1, H0271: 1, H0617: 1, H0169: 1, H0068: 1, L0351: 1, H0494: 1, H0396: 1, L0446: 1, L0763: 1, L0761: 1, L0667: 1, L0372: 1, L0644: 1, L0771: 1, L0648: 1, L0662: 1, L0768: 1, L0766: 1, L0774: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, H0593: 1, H0672: 1, L0602: 1, S0152: 1, H0522: 1, L0786: 1, L0779: 1, L0780: 1, L0758: 1, L0759: 1 and H0668: 1.		
1355	HMA CF34	853364	1365	324 - 383	3962		L0562: 1 and S0144: 1. AR235: 6, AR285: 6, AR295: 5, AR291: 5, AR297: 5, AR287: 4, AR282: 4, AR261: 4, AR161: 4, AR162: 4, AR236: 4, AR246: 4, AR163: 4, AR296: 3, AR312: 3, AR212: 3, AR170: 3, AR165: 3,		

1356	HMACL77	853365	1366	251 - 355	3963			AR055: 3, AR089: 3, AR288: 3, AR164: 3, AR176: 3, AR166: 3, AR213: 3, AR262: 3, AR096: 3, AR195: 3, AR309: 3, AR205: 3, AR215: 3, AR189: 3, AR192: 3, AR311: 3, AR225: 3, AR269: 3, AR294: 3, AR173: 3, AR039: 2, AR263: 2, AR293: 2, AR283: 2, AR258: 2, AR053: 2, AR183: 2, AR060: 2, AR255: 2, AR257: 2, AR180: 2, AR204: 2, AR300: 2, AR177: 2, AR289: 2, AR191: 2, AR270: 2, AR178: 2, AR196: 2, AR201: 2, AR175: 2, AR168: 2, AR316: 2, AR299: 2, AR243: 2, AR224: 2, AR272: 2, AR190: 2, AR218: 2, AR181: 2, AR174: 2, AR214: 2, AR313: 2, AR286: 1, AR238: 1, AR308: 1, AR266: 1, AR185: 1, AR188: 1, AR217: 1, AR260: 1, AR290: 1, AR203: 1, AR239: 1, AR222: 1, AR226: 1, AR231: 1, AR216: 1, AR193: 1, AR182: 1, AR267: 1, AR228: 1, AR179: 1, AR211: 1, AR240: 1 S0144: 2		Xq26	300037, 300076,
								AR089: 6, AR316: 6,			

AR060: 6	L0748: 17, L0758: 15, L0754: 14, L0439: 13, S0414: 11, S0434: 9, L0803: 8, L0662: 7, L0776: 7, L0740: 7, L0751: 7, L0747: 7, L0769: 6, L0806: 6, L0666: 6, L0438: 6, H0039: 5, L0774: 5, L0659: 5, H0521: 5, L0756: 5, H0506: 5, H0013: 4, H0599: 4, L0766: 4, L0750: 4, L0731: 4, L0757: 4, L0759: 4, L0485: 4, H0713: 3, S0418: 3, S0358: 3, H0619: 3, L0717: 3, H0587: 3, H0486: 3, H0052: 3, H0553: 3, H0124: 3, H0494: 3, S0142: 3, L0770: 3, L0764: 3, L0775: 3, L0783: 3, L0664: 3, L0665: 3, L0777: 3, L0752: 3, H0663: 2, H0638: 2, S0442: 2, S0408: 2, S0007: 2, S0132: 2, S0476: 2, H0455: 2, H0586: 2, H0427: 2, H0575: 2, H0036: 2, S0010: 2, S0474: 2, H0581: 2, H0421: 2, H0457: 2, T0010: 2, H0266: 2, H0416: 2, H0188: 2, L0483: 2, H0135: 2, H0591: 2, H0551: 2, H0623: 2, H0560: 2, S0440: 2, S0144: 2, S0344: 2, S0426: 2, L0369: 2, L0763: 2, L0637: 2, L0768: 2, L0794: 2, L0804: 2, L0805: 2, L0653: 2, L0663: 2, S0374: 2, H0520: 2, H0690: 2, S0378: 2, H0436: 2, S0028: 2, L0744: 2, L0745: 2, L0755: 2, S0031: 2, L0596: 2, L0604: 2, L0362: 2, S0196: 2, L0615: 1, S6024: 1, S0114: 1, S0298: 1, S0212: 1, H0255: 1, H0661: 1, H0662: 1, H0125: 1, H0192: 1, S0420: 1,	300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 309555, 310490, 312000, 313350, 313850
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Asn-244 to Phe-251.	AR259: 25, AR292: 24, AR249: 18, AR251: 17, AR229: 14, AR314: 13, AR237: 13, AR294: 13, AR296: 12, AR293: 12, AR233: 11, AR284: 11, AR227: 11, AR315: 11, AR182: 11, AR280: 10, AR266: 10, AR231: 9, AR061: 9, AR033: 9, AR248: 8, AR232: 8, AR286: 8, AR267: 8, AR281: 8, AR269: 8, AR226: 8, AR256: 7, AR289: 7, AR285: 7, AR234: 7, AR290: 7, AR238: 7, AR183: 7, AR177: 7, AR295: 7, AR175: 6, AR291: 6, AR186: 6, AR055: 6, AR176: 6, AR282: 5, AR270: 5, AR089: 5, AR268: 5, AR258: 5, AR185: 5, AR161: 5, AR162: 5, AR163: 5, AR228: 5, AR235: 5, AR263: 5, AR310: 4, AR179: 4, AR300: 4, AR181: 4, AR219: 4, AR277: 4, AR313: 4, AR316: 4, AR096: 4, AR201: 4, AR283: 4, AR172: 4, AR060: 4, AR261: 4, AR299: 4, AR218: 4, AR223: 4, AR202: 3, AR168: 3, AR053: 3, AR245: 3, AR236: 3, AR165: 3, AR247: 3, AR164: 3, AR217: 3, AR255: 3,					
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1359	HMADI74	795479	1369	264 - 1139	3966	Asp-229 to Cys-239, Asn-244 to Glu-253, Thr-271 to Ser-278.	AR309: 3, AR271: 3, AR230: 3, AR166: 3, AR288: 3, AR191: 3, AR262: 3, AR240: 3, AR178: 3, AR253: 3, AR257: 3, AR252: 3, AR215: 3, AR311: 3, AR239: 3, AR196: 3, AR190: 3, AR287: 3, AR264: 3, AR171: 3, AR225: 3, AR173: 3, AR272: 3, AR200: 2, AR216: 2, AR274: 2, AR242: 2, AR297: 2, AR214: 2, AR193: 2, AR188: 2, AR203: 2, AR222: 2, AR224: 2, AR243: 2, AR275: 2, AR204: 2, AR312: 2, AR189: 2, AR199: 2, AR206: 2, AR207: 2, AR195: 2, AR265: 2, AR246: 1, AR211: 1, AR308: 1, AR174: 1, AR197: 1, AR180: 1, AR260: 1, AR052: 1, AR221: 1 S0144: 6, S0278: 5, S0002: 4, S0344: 3, H0521: 3, S0003: 2, H0575: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1, L0776: 1 and L0791: 1.	8q22	216550, 259730
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1360	HMAEA58	872563	1370	40 - 111	3967		AR249: 2, AR214: 2, AR033: 2, AR172: 2, AR052: 2, AR240: 2, AR195: 2, AR221: 2, AR212: 2, AR175: 2, AR291: 2, AR226: 2, AR104: 2, AR263: 2, AR275: 2, AR192: 2, AR299: 2, AR229: 2, AR274: 2, AR213: 2, AR298: 2, AR258: 2, AR310: 2, AR232: 2, AR271: 2, AR283: 2, AR227: 2, AR210: 2, AR296: 1, AR205: 1, AR243: 1, AR273: 1, AR219: 1, AR194: 1, AR256: 1, AR284: 1 S0278: 5, S0144: 5, S0002: 4, S0344: 3, H0521: 3, S0003: 2, H0638: 1, H0575: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1, L0776: 1 and S0122: 1.		
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1361	HMAF01	837235	1371	136 - 330	3968	Arg-20 to Glu-27.	<p>2, H0624: 1, H0171: 1, H0556: 1, H0220: 1, S0114: 1, H0657: 1, H0692: 1, S0116: 1, S0282: 1, H0402: 1, S0418: 1, S0046: 1, S0278: 1, H0549: 1, S0222: 1, H0404: 1, H0607: 1, H0574: 1, H0486: 1, H0013: 1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, H0544: 1, H0050: 1, H0083: 1, S0214: 1, H0328: 1, H0428: 1, S0364: 1, H0598: 1, H0038: 1, H0040: 1, H0056: 1, H0509: 1, S0210: 1, S0002: 1, H0529: 1, H0517: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L0667: 1, L0662: 1, L0768: 1, L0774: 1, L0653: 1, L0776: 1, L0809: 1, L0788: 1, L0664: 1, H0520: 1, H0593: 1, S0380: 1, H0522: 1, H0436: 1, H0478: 1, H0479: 1, S3014: 1, L0748: 1, L0756: 1, L0779: 1, L0777: 1, L0684: 1, H0707: 1 and L0599: 1.</p>		
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1362	HMAJS26	831093	1372	743 - 937	3969	Pro-30 to Gln-40.	1, H0090: 1, H0040: 1, H0616: 1, H0488: 1, H0494: 1, S0440: 1, L0763: 1, L0770: 1, L0667: 1, L0372: 1, L0651: 1, L0805: 1, L0606: 1, L0809: 1, L0665: 1, S0216: 1, H0698: 1, H0519: 1, H0711: 1, H0435: 1, S0328: 1, H0696: 1, H0436: 1, S0432: 1, S0027: 1, S0028: 1, L0746: 1, L0786: 1, L0597: 1 and L0594: 1.		
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1363	HMCED78	829071	1373	471 - 542	3970		AR060: 15, AR316: 14, AR089: 14 L0777: 15, L0766: 7, L0776: 6, L0751: 6, L0770: 4, L0775: 4, L0806: 4, L0805: 4, L0780: 4, S0214: 3, L0769: 3, L0774: 3, L0755: 3, H0599: 2, S0003: 2, L0768: 2, L0803: 2, L0807: 2, L0788: 2, L0743: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0752: 2, L0758: 2, L0591: 2, L0603: 2, H0159: 1, H0661: 1	8p22-q21.13	148370, 238600, 238600, 238600, 238600, 600143, 601385, 602629

1364	HMCFN86	886182	1374	413 - 661	3971	Pro-46 to Arg-63.	1, S0045: 1, S0222: 1, L0586: 1, H0575: 1, S0010: 1, S0474: 1, H0309: 1, S0050: 1, S0051: 1, S0022: 1, H0553: 1, H0169: 1, H0591: 1, H0038: 1, H0634: 1, S0142: 1, S0422: 1, L0369: 1, L0771: 1, L0521: 1, L0655: 1, L0783: 1, L0787: 1, S0374: 1, H0659: 1, S0152: 1, S0102: 1, L0439: 1, L0747: 1, L0750: 1, S0026: 1 and H0543: 1. AR060: 398, AR316: 365, AR089: 330 H0618: 5, L0757: 5, S0007: 3, H0728: 2, H0253: 2, H0620: 2, H0617: 2, L0770: 2, L0659: 2, L5286: 2, L0745: 2, L0747: 2, L0599: 2, H0265: 1, H0686: 1, H0685: 1, H0656: 1, L0785: 1, S0212: 1, H0483: 1, S0356: 1, H0675: 1, S0408: 1, L0717: 1, H0409: 1, H0256: 1, S0346: 1, S0049: 1, H0009: 1, H0123: 1, S0051: 1, T0010: 1, H0039: 1, H0038: 1, H0616: 1, H0264: 1, H0412: 1, H0494: 1, S0344: 1, L0371: 1, L0639: 1, L0646: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0651: 1, L0378: 1, L0655: 1, L0809: 1, L0438: 1, H0648: 1, S0044: 1, H0555: 1, H0626: 1, L0746: 1, L0750: 1, L0758: 1, L0759: 1, L0581: 1, H0543: 1 and H0506: 1.		
1365	HMCJ47	699850	1375	889 - 984	3972		AR089: 8, AR316: 7, AR060: 6 L0605: 28, L0754: 9, S0003: 6, L0803: 6, L0777: 5, L0759: 4, L0770: 3, L0663: 3, H0683: 3, L0439: 3, L0756: 3, L0599: 3.	9q21-q22	190100, 200150, 229300, 229300, 229600, 264300, 600429, 600542, 600974, 600998, 602014, 602088

Case	Age	Sex	Duration of illness	Onset	Course	Outcome	Pathology	Diagnosis
1	20	M	10 days	Acute	Progressive	Death	Brain	Encephalitis
2	25	F	15 days	Acute	Progressive	Death	Brain	Encephalitis
3	30	M	20 days	Acute	Progressive	Death	Brain	Encephalitis
4	35	F	25 days	Acute	Progressive	Death	Brain	Encephalitis
5	40	M	30 days	Acute	Progressive	Death	Brain	Encephalitis
6	45	F	35 days	Acute	Progressive	Death	Brain	Encephalitis
7	50	M	40 days	Acute	Progressive	Death	Brain	Encephalitis
8	55	F	45 days	Acute	Progressive	Death	Brain	Encephalitis
9	60	M	50 days	Acute	Progressive	Death	Brain	Encephalitis
10	65	F	55 days	Acute	Progressive	Death	Brain	Encephalitis
11	70	M	60 days	Acute	Progressive	Death	Brain	Encephalitis
12	75	F	65 days	Acute	Progressive	Death	Brain	Encephalitis
13	80	M	70 days	Acute	Progressive	Death	Brain	Encephalitis
14	85	F	75 days	Acute	Progressive	Death	Brain	Encephalitis
15	90	M	80 days	Acute	Progressive	Death	Brain	Encephalitis
16	95	F	85 days	Acute	Progressive	Death	Brain	Encephalitis
17	100	M	90 days	Acute	Progressive	Death	Brain	Encephalitis
18	105	F	95 days	Acute	Progressive	Death	Brain	Encephalitis
19	110	M	100 days	Acute	Progressive	Death	Brain	Encephalitis
20	115	F	105 days	Acute	Progressive	Death	Brain	Encephalitis

1366	HMCCK88	654854	1376	317 - 352	3973	Thr-2 to Arg-11.	3, S0026: 3, H0171: 2, S0418: 2, H0587: 2, H0050: 2, L0483: 2, H0032: 2, H0591: 2, H0413: 2, L0772: 2, L0768: 2, L0649: 2, L0659: 2, L0666: 2, H0547: 2, H0519: 2, H0670: 2, S0380: 2, L0747: 2, L0731: 2, L0587: 2, L0591: 2, L0362: 2, S0192: 2, H0624: 1, T0049: 1, H0663: 1, H0402: 1, H0638: 1, S0376: 1, S0444: 1, S0360: 1, H0208: 1, S6026: 1, H0392: 1, H0635: 1, L0021: 1, H0575: 1, H0581: 1, H0052: 1, H0596: 1, H0597: 1, L0738: 1, H0544: 1, H0024: 1, S0051: 1, H0428: 1, H0622: 1, H0031: 1, H0553: 1, H0644: 1, H0169: 1, H0090: 1, H0038: 1, H0040: 1, H0100: 1, H0494: 1, H0560: 1, H0625: 1, H0646: 1, S0344: 1, H0538: 1, S0422: 1, H0529: 1, L0646: 1, L0662: 1, L0794: 1, L0387: 1, L0766: 1, L0804: 1, L0776: 1, L0527: 1, L0647: 1, L0665: 1, L0438: 1, L0352: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0378: 1, H0518: 1, H0521: 1, H0522: 1, L0779: 1, S0031: 1, H0444: 1, L0589: 1, L0592: 1 and L0608: 1.	11	AR263: 17, AR250: 14, AR254: 14, AR309: 13, AR212: 13, AR053: 13, AR264: 13, AR213: 11, AR253: 11, AR268: 9, AR311: 9, AR235: 9, AR225: 8, AR312: 8, AR162: 8, AR161: 8, AR163: 8, AR096: 7,
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[illegible]

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1367	HMCIH27	862038	1377	152 - 301	3974		1, L0606: 1, L0790: 1, H0698: 1, H0701: 1, S0350: 1, H0478: 1, H0727: 1, S0390: 1, L0749: 1, L0779: 1, H0543: 1, H0423: 1 and S0424: 1. AR089: 20, AR316: 14, AR060: 10 L0748: 3, S0344: 2, H0590: 1, S0010: 1, H0050: 1, L0803: 1 and S0053: 1.		
1368	HMCIQ20	827296	1378	356 - 436	3975		AR089: 7, AR316: 7, AR060: 6 L0748: 3, S0344: 2, S0010: 1, H0050: 1, L0803: 1 and S0053: 1.		
1369	HMCJC19	845309	1379	215 - 475	3976	Pro-43 to Leu-49, Gly-81 to Lys-86.	AR060: 7, AR316: 6, AR089: 5 S0344: 1, L0763: 1, L0772: 1 and L0758: 1.		
1370	HMDAB44	603176	1380	432 - 605	3977	Lys-21 to Trp-34, Tyr-36 to Gly-42.	H0346: 1		
1371	HMDAE88	638222	1381	377 - 601	3978	Ala-19 to His-26, Asn-56 to Asp-62.	H0346: 1, H0172: 1 and H0665: 1.		
1372	HMDAG62	825493	1382	399 - 647	3979	Cys-28 to Cys-34, Asn-40 to Thr-46, Phe-62 to Leu-70.	AR060: 5, AR316: 5, AR089: 4 L0745: 11, L0439: 10, L0483: 4, L0774: 3, H0616: 2, L0438: 2, S0328: 2, S0212: 1, H0346: 1, S0360: 1, L0717: 1, H0369: 1, S0222: 1, H0431: 1, H0244: 1, L0021: 1, H0036: 1, H0546: 1, H0567: 1, T0003: 1, H0375: 1, S0210: 1, L0662: 1, L0653: 1, L0789: 1, H0520: 1, S0152: 1 and L0747: 1.		
1373	HMDAK20	604990	1383	149 - 283	3980		H0346: 1		
1374	HMDAM08	638224	1384	31 - 129	3981		H0346: 1		
1375	HMDAM39	602907	1385	38 - 124	3982		H0346: 1 and L0659: 1.		
1376	HMEAA41	587304	1386	9 - 422	3983	Ser-82 to Gly-88,	L0747: 5, H0556: 4, L0769: 17p13		138190, 254210,

						Pro-131 to Gly-137.			4, L0806: 3, L0790: 3, L0779: 3, H0265: 2, H0013: 2, L0666: 2, L0439: 2, L0740: 2, L0749: 2, L0752: 2, L0757: 2, L0596: 2, T0049: 1, S0046: 1, S0132: 1, S0476: 1, L0717: 1, H0549: 1, H0600: 1, H0559: 1, H0046: 1, H0083: 1, H0266: 1, S0314: 1, H0622: 1, H0674: 1, H0135: 1, H0090: 1, L0564: 1, H0494: 1, S0440: 1, L0772: 1, L0800: 1, L0644: 1, L0794: 1, L0766: 1, L0776: 1, L0807: 1, L0809: 1, L0791: 1, L0665: 1, H0144: 1, H0660: 1, S0406: 1, L0780: 1, S0434: 1 and L0595: 1.		271900, 600179, 600977, 601202, 601777
1377	HMECM77	581822	1387	141 - 269	3984	Thr-36 to Arg-42.		AR060: 4, AR316: 3, AR089: 2 H0266: 1			
1378	HMEEH21	603187	1388	20 - 136	3985			H0266: 1			
1379	HMEET36	603197	1389	56 - 154	3986			H0031: 4, S0360: 3, H0486: 3, L0764: 3, L0754: 3, L0749: 3, L0752: 3, H0255: 2, S0414: 2, S0346: 2, H0615: 2, L0666: 2, H0144: 2, L0438: 2, L0750: 2, L0777: 2, L0731: 2, L0599: 2, S0001: 1, S0045: 1, L0476: 1, H0619: 1, S0222: 1, H0455: 1, H0586: 1, H0013: 1, T0010: 1, H0375: 1, H0266: 1, H0316: 1, S0036: 1, H0090: 1, H0591: 1, H0264: 1, H0268: 1, H0646: 1, L0794: 1, L0766: 1, L0803: 1, L0661: 1, L0659: 1, L0809: 1, L0530: 1, L0647: 1, L0663: 1, L0665: 1, H0547: 1, H0682: 1, S0330: 1, H0696: 1, S0044: 1, H0436: 1, S0032: 1, L0439: 1, L0755: 1, L0591: 1, L0362: 1 and H0423: 1.	13		

1380	HMEEZ07	638225	1390	192 - 320	3987			H0309: 1, H0266: 1 and H0059: 1.		
1381	HMEFB15	596820	1391	117 - 227	3988	Gln-8 to Arg-13.		H0266: 1		
1382	HMEIH57	840370	1392	121 - 273	3989			AR060: 3, AR316: 3, AR089: 2 S0114: 2 and H0266: 1.		
1383	HMEI121	767276	1393	553 - 615	3990			AR089: 7, AR316: 6, AR060: 4 H0457: 12, H0521: 8, L0439: 8, L0766: 6, H0622: 5, L0666: 5, H0255: 4, L0769: 4, S0406: 4, L0758: 4, H0657: 3, H0253: 3, H0135: 3, L0775: 3, L0659: 3, S0152: 3, L0731: 3, H0667: 3, S0420: 2, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0036: 2, H0618: 2, H0052: 2, H0688: 2, H0617: 2, H0040: 2, H0059: 2, L0662: 2, L0806: 2, L0655: 2, L0657: 2, L0664: 2, L0438: 2, H0593: 2, H0539: 2, H0694: 2, H0436: 2, L0780: 2, L0753: 2, S0024: 1, H0583: 1, H0650: 1, H0341: 1, H0484: 1, H0638: 1, S0358: 1, H0580: 1, S0007: 1, H0393: 1, S0222: 1, H0592: 1, L0021: 1, H0575: 1, S0049: 1, H0266: 1, H0271: 1, H0416: 1, S0022: 1, H0039: 1, H0213: 1, H0644: 1, L0142: 1, H0181: 1, S0366: 1, H0488: 1, H0487: 1, S0038: 1, L0763: 1, L0770: 1, L0637: 1, L5566: 1, L0646: 1, L0643: 1, L0773: 1, L0648: 1, L0774: 1, L0375: 1, L0376: 1, L0378: 1, L0653: 1, L0656: 1, L0634: 1, L0526: 1, L0783: 1, L0792: 1, H0547: 1, H0519: 1, H0666: 1, H0478: 1, S3012: 1, L0742: 1, L0748: 1, L0751: 1.		



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1388	HMEKH55	833069	1398	245 - 361	3995	AR089: 12, AR316: 10, AR060: 9 L0595: 11, H0521: 6, L0783: 5, H0520: 5, H0547: 5, L0593:	

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1389	HMEKW44	825499	1399	26 - 202	3996	Arg-48 to Cys-57.	H0266: 2, L0758: 2, L0002: 1, H0438: 1, H0591: 1, L0771: 1 and L0465: 1.				
1390	HMEKW71	855955	1400	244 - 402	3997	Gln-2 to His-14, Pro-17 to Glu-22, Pro-37 to Thr-48.	L0794: 11, L0754: 9, L0747: 5, L0750: 5, L0803: 4, L0789: 4, L0749: 4, L0731: 4, H0255: 3, H0625: 3, H0529: 3, L0804: 3, L0809: 3, L0743: 3, L0755: 3, S0046: 2, H0599: 2, H0081: 2, H0268: 2, L0659: 2, L0663: 2, L0777: 2, H0662: 1, S0442: 1, S0408: 1, S0045: 1, H0497: 1, H0333: 1, H0486: 1, H0618: 1, H0253: 1, H0052: 1, H0309: 1, H0150: 1, H0570: 1, T0003: 1, H0083: 1, H0510: 1, H0266: 1, H0424: 1, S0366: 1, H0413: 1, H0509: 1, S0472: 1, H0649: 1, L0770: 1, L0646: 1, L0768: 1, L0774: 1, L0775: 1, L0666: 1.	9q34.3	120215, 120215, 190198		

1391	HMELW26	581068	1401	92 - 163	3998	Gly-18 to Gly-23.	<p>1, S0053: 1, H0593: 1, S0378: 1, S0380: 1, L0758: 1, L0759: 1 and H0506: 1.</p> <p>L0771: 6, L0766: 6, L0803: 6, H0521: 6, L0731: 6, H0341: 5, S0354: 5, L0770: 5, H0519: 5, L0439: 5, L0754: 5, H0009: 4, L0521: 4, L0662: 4, L0438: 4, S0028: 4, L0758: 4, S0436: 4, L0485: 4, L0601: 4, H0657: 3, H0638: 3, S0418: 3, S0007: 3, S0222: 3, S0214: 3, H0673: 3, S0422: 3, L0794: 3, L0805: 3, L0776: 3, H0144: 3, H0670: 3, S0406: 3, L0756: 3, H0667: 3, S0420: 2, S0358: 2, S0360: 2, H0729: 2, H0733: 2, S0476: 2, H0645: 2, S0300: 2, H0156: 2, S0010: 2, H0178: 2, H0375: 2, S6028: 2, H0266: 2, S0003: 2, H0428: 2, H0169: 2, S0036: 2, H0634: 2, H0529: 2, L0369: 2, L0640: 2, L0637: 2, L0761: 2, L0646: 2, L0649: 2, L0774: 2, L0775: 2, L0659: 2, L0783: 2, L0809: 2, L0666: 2, L0665: 2, H0725: 2, H0547: 2, H0435: 2, H0659: 2, S0380: 2, S3014: 2, S0206: 2, L0752: 2, L0759: 2, S0434: 2, L0596: 2, H0668: 2, H0170: 1, H0556: 1, S0342: 1, H0713: 1, H0717: 1, H0716: 1, H0294: 1, T0049: 1, S0218: 1, S0282: 1, S0400: 1, H0241: 1, H0402: 1, L0534: 1, L0539: 1, S0376: 1, S0444: 1, S0410: 1, H0728: 1, H0229: 1, S0045: 1, S6026: 1, H0406: 1, S0220: 1, H0441: 1, H0415: 1, H0438: 1, H0362: 1, H0333: 1, H0574: 1.</p>		
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1392	HMGBT32	732678	1402	243 - 308	3999			1, H0486: 1, T0060: 1, H0013: 1, H0427: 1, H0599: 1, H0575: 1, H0318: 1, H0581: 1, H0374: 1, H0085: 1, T0110: 1, H0150: 1, H0563: 1, S0388: 1, S0051: 1, H0687: 1, H0039: 1, H0030: 1, H0553: 1, H0644: 1, H0628: 1, H0166: 1, L0455: 1, H0708: 1, S0366: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0380: 1, H0623: 1, S0386: 1, T0042: 1, H0494: 1, H0561: 1, S0370: 1, H0509: 1, H0130: 1, H0641: 1, L0598: 1, L0769: 1, L0638: 1, L0796: 1, L0667: 1, L0630: 1, L0373: 1, L0800: 1, L0641: 1, L0773: 1, L5569: 1, L574: 1, L0381: 1, L0806: 1, L0661: 1, L0527: 1, L0518: 1, L5622: 1, L5623: 1, L0789: 1, L0790: 1, L0793: 1, S0374: 1, H0520: 1, S0126: 1, H0648: 1, H0522: 1, H0555: 1, S0392: 1, S3012: 1, L0742: 1, L0749: 1, L0777: 1, L0753: 1, L0755: 1, L0757: 1, L0366: 1, S0026: 1, S0276: 1, S0196: 1, H0542: 1 and H0543: 1.	8p23.1	
1393	HMHBI09	847402	1403	199 - 333	4000	Met-1 to Phe-7, Pro-30 to Trp-42.		AR060: 6, AR316: 5, AR089: 3 H0284: 2 AR316: 8, AR060: 8, AR089: 8 H0529: 8, L0794: 6, L0439: 5, S0424: 4, H0559: 3, H0083: 3, L0769: 3, L0783: 3, L0809: 3, L0748: 3, L0777: 3, L0759: 3, S0192: 3, H0341: 2, H0587: 2, H0266: 2, H0286: 2, H0623: 2, L0351: 2, S0422: 2, L0761: 2		



1394	HMHBI93	844729	1404	319 - 366	4001			2, L0659: 2, L0565: 2, L0438: 2, L0745: 2, L0756: 2, L0758: 2, H0665: 2, H0739: 1, H0265: 1, H0685: 1, H0657: 1, L0427: 1, H0484: 1, S0420: 1, S0358: 1, L0476: 1, H0601: 1, H0592: 1, H0013: 1, H0427: 1, L0021: 1, S0474: 1, H0581: 1, H0597: 1, H0546: 1, H0046: 1, H0086: 1, H0024: 1, T0010: 1, H0594: 1, H0428: 1, H0604: 1, H0181: 1, H0135: 1, H0272: 1, S0438: 1, H0647: 1, S0144: 1, L0770: 1, L0639: 1, L0372: 1, L0800: 1, L0644: 1, L0766: 1, L0803: 1, L0382: 1, L0787: 1, L0788: 1, L0790: 1, L0663: 1, L0665: 1, S0374: 1, L0352: 1, H0547: 1, H0593: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0742: 1, L0740: 1, L0751: 1, L0746: 1, L0749: 1, L0779: 1, L0757: 1 and S0436: 1.				
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1395	HMHBP74	765108	1405	208 - 309	4002			1, H0641: 1, S0002: 1, L0639: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0641: 1, L0764: 1, L0381: 1, L0774: 1, L0651: 1, L0806: 1, L0655: 1, L0783: 1, L0663: 1, H0520: 1, H0689: 1, H0690: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0044: 1, S0404: 1, L0744: 1, L0751: 1, L0750: 1, L0753: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0196: 1, S0042: 1, S0458: 1 and H0677: 1.		
1396	HMIAC52	825484	1406	251 - 409	4003			AR089: 7, AR316: 7, AR060: 7 L0439: 10, L0769: 3, H0455: 2, L0526: 2, L0438: 2, L0748: 2, L0751: 2, L0777: 2, L0411: 1, S0110: 1, S0001: 1, L0717: 1, S0222: 1, H0370: 1, L0563: 1, H0041: 1, H0687: 1, H0286: 1, H0413: 1, H0494: 1, S0344: 1, L0770: 1, L0793: 1, H0521: 1, H0187: 1, S0028: 1, L0786: 1 and L0752: 1.	19pter-pl3.3	
1397	HMIAD75	846483	1407	75 - 194	4004			AR089: 28, AR316: 21, AR060: 15 H0457: 4, H0547: 3, L0742: 3, H0265: 2, H0052: 2, L0761: 2, L0649: 2, L0777: 2, H0717: 1, S0282: 1, H0255: 1, S0354: 1, S0444: 1, H0645: 1, H0550: 1, H0586: 1, H0253: 1, H0318: 1, H0581: 1, S6028: 1, S0338: 1, S0150: 1, L0764: 1, L0794: 1, L0766: 1, L0542: 1, H0693: 1, H0519: 1, H0689: 1, H0711: 1, H0521: 1, L0439: 1, H0422: 1 and H0506: 1.		
								S6028: 1		

1398	HMIAG42	846339	1408	273 - 383	4005	Pro-15 to Gly-23.	AR282: 4, AR172: 4, AR245: 3, AR213: 3, AR168: 2, AR252: 2, AR165: 2, AR216: 2, AR211: 2, AR230: 2, AR205: 2, AR161: 2, AR224: 2, AR222: 2, AR247: 1, AR163: 1, AR215: 1, AR096: 1, AR257: 1, AR232: 1, AR239: 1, AR283: 1, AR178: 1, AR288: 1, AR295: 1, AR229: 1, AR183: 1, AR312: 1 S0136: 47, L0769: 11, L0439: 7, L0750: 7, L0777: 7, H0620: 5, L0776: 5, H0519: 5, L0740: 5, L0752: 5, H0341: 4, H0545: 4, S0440: 4, L0805: 4, L0509: 4, L0809: 4, L0666: 4, L0748: 4, L0756: 4, S0436: 4, H0624: 3, H0265: 3, H0556: 3, S0418: 3, S0045: 3, H0393: 3, L0717: 3, H0266: 3, S0422: 3, L0764: 3, L0659: 3, H0696: 3, L0755: 3, L0731: 3, L0759: 3, S0434: 3, S0026: 3, S0356: 2, S0358: 2, S0360: 2, H0587: 2, H0574: 2, T0060: 2, S0010: 2, H0046: 2, H0510: 2, H0032: 2, H0673: 2, H0169: 2, H0674: 2, H0135: 2, H0038: 2, H0413: 2, H0646: 2, L0646: 2, L0766: 2, L0803: 2, L5622: 2, L0665: 2, S0374: 2, H0659: 2, H0648: 2, S0328: 2, S0378: 2, S0380: 2, S3014: 2, L0758: 2, L0588: 2, L0589: 2, L0592: 2, L0594: 2, L0603: 2, H0543: 2, H0171: 1, S0040: 1, H0717: 1, H0295: 1,	8	
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1401	HMIAL39	668251	1411	212 - 337	4008		1, L0752: 1, L0755: 1, S0031: 1, H0445: 1 and L0593: 1. L0747: 4, H0201: 2, L0438: 2, H0485: 1, H0046: 1, S6028: 1, T0023: 1, L0794: 1, L0774: 1, L0809: 1, L0666: 1, H0435: 1, H0436: 1, S3014: 1, S0027: 1, L0439: 1, L0740: 1, L0777: 1 and H0422: 1.		
1402	HMIAO82	833070	1412	129 - 203	4009		L0744: 5, L0439: 4, L0591: 4, S6028: 3, L0794: 3, L0755: 3, H0013: 2, H0457: 2, L0518: 2, L0665: 2, S0404: 2, L0596: 2, S0420: 1, H0619: 1, H0645: 1, S0222: 1, H0431: 1, H0486: 1, H0318: 1, H0052: 1, H0046: 1, H0009: 1, H0050: 1, H0615: 1, H0039: 1, L0055: 1, H0591: 1, H0059: 1, H0100: 1, L0764: 1, L0803: 1, L0775: 1, L0776: 1, L0628: 1, L0527: 1, L0635: 1, L0809: 1, L0666: 1, H0693: 1, H0547: 1, H0660: 1, S0152: 1, L0748: 1, L0750: 1 and L0777: 1.		
1403	HMIAR42	809096	1413	236 - 262	4010		S0022: 8, S0436: 7, L0749: 6, L0779: 6, L0754: 5, L0752: 5, H0457: 4, H0547: 4, S0474: 3, H0014: 3, H0551: 3, S0440: 3, L0764: 3, L0766: 3, L0777: 3, L0755: 3, L0731: 3, H0686: 2, S0116: 2, S0003: 2, H0649: 2, L0649: 2, L0526: 2, S0378: 2, L0748: 2, L0750: 2, L0756: 2, L0753: 2, L0596: 2, L0592: 2, L0599: 2, H0543: 2, S0040: 1, S0212: 1, H0661: 1, S0442: 1, H0734: 1, H0208: 1, H0411: 1, H0427: 1, L0021: 1, H0052: 1, L0738: 1, H0050: 1, S6028: 1.	7q22-q31	126650, 126650, 154276, 164860, 173360, 173360, 180105, 222800, 246900, 274600, 274600, 602081, 602136, 602136, 602447

1404	HMIAV33	668252	1414	360 - 434	4011		1, H0271: 1, S0214: 1, H0030: 1, L0142: 1, L0055: 1, S0036: 1, H0038: 1, L0564: 1, H0560: 1, H0695: 1, L0667: 1, L0772: 1, L0771: 1, L0662: 1, L0767: 1, L0794: 1, L0551: 1, L0776: 1, L0655: 1, L0659: 1, L0382: 1, L0666: 1, L0664: 1, H0698: 1, L0438: 1, H0520: 1, H0689: 1, S0380: 1, H0696: 1, S0404: 1, S0406: 1, H0436: 1, L0743: 1, L0439: 1, L0747: 1, L0758: 1, L0759: 1, L0591: 1, L0485: 1, S0011: 1 and S0194: 1.		
1405	HMIAZ24	846484	1415	144 - 194	4012		H0170: 1, S6028: 1, H0090: 1 and L0749: 1. AR089: 35, AR316: 25, AR060: 15 L0758: 23, H0616: 7, S0410: 6, L0748: 6, L0665: 4, L0439: 4, S0442: 3, L0646: 3, L0662: 3, L0794: 3, L0803: 3, L0663: 3, S0216: 3, L0754: 3, L0749: 3, L0717: 2, L0667: 2, L0764: 2, L0771: 2, L0648: 2, L0375: 2, L0806: 2, L0653: 2, L0809: 2, L0666: 2, S0052: 2, S0428: 2, S0053: 2, L0759: 2, H0716: 1, S6024: 1, S0218: 1, S0282: 1, H0484: 1, H0255: 1, L0562: 1, L0539: 1, S0360: 1, S0046: 1, H0549: 1, H0370: 1, H0438: 1, H0333: 1, H0635: 1, H0581: 1, H0052: 1, H0309: 1, H0150: 1, L0471: 1, H0620: 1, H0594: 1, S6028: 1, H0179: 1, H0271: 1, H0252: 1, H0688: 1, H0622: 1, H0417: 1, H0617: 1, H0674: 1, H0135: 1, H0087: 1, H0059: 1, S0038: 1, S0472: 1, L4557: 1.		

								1, L0770: 1, L0769: 1, L0637: 1, L0761: 1, L0800: 1, L0773: 1, L0766: 1, L0649: 1, L0775: 1, L0776: 1, L0518: 1, L0789: 1, L0438: 1, S0126: 1, H0658: 1, S0328: 1, S0152: 1, H0579: 1, S0028: 1, L0743: 1, L0753: 1, H0445: 1, S0276: 1, H0543: 1, H0422: 1 and S0446: 1.	
1406	HMIBD93	634227	1416	983 - 1180	4013	Pro-4 to Gly-13, Ala-42 to Ser-50.		AR089: 52, AR316: 42, AR060: 33 L0439: 11, L0751: 5, S0222: 3, L0769: 3, L0766: 3, H0617: 2, S0038: 2, L0770: 2, L0764: 2, L0794: 2, L0438: 2, L0747: 2, L0752: 2, H0445: 2, S6024: 1, S0001: 1, H0351: 1, H0586: 1, S0010: 1, H0373: 1, S0051: 1, T0010: 1, S6028: 1, H0264: 1, S0150: 1, L0768: 1, S0052: 1, H0522: 1, L0741: 1, L0753: 1, L0758: 1 and H0422: 1.	
1407	HMIBE95	804597	1417	31 - 303	4014	Pro-43 to Cys-48.		S6028: 1	
1408	HMIBG57	638227	1418	130 - 231	4015			L0599: 3, S6028: 1, H0165: 1, L0766: 1, L0803: 1, L0752: 1, L0589: 1, L0591: 1 and H0543: 1.	
1409	HMJAC12	841631	1419	276 - 398	4016	Ile-20 to Leu-29.		H0391: 1	
1410	HMKAN71	884161	1420	316 - 423	4017			L0754: 6, L0803: 4, L0766: 3, L0659: 3, H0638: 2, S0360: 2, L0794: 2, L0649: 2, L0806: 2, L0518: 2, L0663: 2, L0665: 2, H0659: 2, L0759: 2, L0588: 2, L0605: 2, H0657: 1, S0356: 1, L0717: 1, H0392: 1, H0600: 1, H0156: 1, H0251: 1, H0375: 1, S0003: 1, H0032: 1, H0634: 1, H0616: 1, H0561: 1, S0422: 1, L0773: 1, L0662: 1, L0768:	4



1411	HMKBA33	596949	1421	87 - 191	4018	Thr-12 to Glu-21.	1, L0388: 1, L0775: 1, L0655: 1, L0661: 1, L0666: 1, S0053: 1, L0438: 1, H0547: 1, H0436: 1, S0037: 1, L0748: 1, L0779: 1, L0731: 1, L0758: 1, L0581: 1 and S0026: 1.		
1412	HMKCI22	864176	1422	455 - 502	4019		H0392: 1 and L0777: 1. L0754: 4, L0777: 4, L0764: 2, L0803: 2, L0789: 2, L0748: 2, L0740: 2, L0731: 2, H0556: 1, T0002: 1, S0442: 1, H0675: 1, L0476: 1, H0392: 1, H0333: 1, H0013: 1, S0346: 1, S0049: 1, T0041: 1, S0440: 1, L0651: 1, L0809: 1, L0532: 1, L0663: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1, L0362: 1 and S0106: 1.		
1413	HMKCK32	561576	1423	60 - 173	4020		AR089: 21, AR316: 17, AR060: 13 H0392: 1		
1414	HMKCP81	608296	1424	131 - 223	4021		H0556: 2, L0771: 2, L0662: 2, L0766: 2, L0779: 2, S0001: 1, H0637: 1, H0580: 1, S0222: 1, H0392: 1, H0333: 1, H0599: 1, T0115: 1, H0625: 1, L0759: 1, L0605: 1, H0543: 1 and S0424: 1.		
1415	HMKCY49	638090	1425	269 - 277	4022		H0580: 1, H0392: 1 and L0589: 1.		
1416	HMKDD51	894846	1426	290 - 409	4023		L0754: 2, H0392: 1, L0663: 1 and L0439: 1.		
1417	HMKDG69	588407	1427	286 - 324	4024		AR089: 14, AR316: 10, AR060: 7 H0373: 2 and H0392: 1.		
1418	HMKDM80	608168	1428	386 - 493	4025		H0392: 2 and S0132: 1.		
1419	HMKEG88	634245	1429	142 - 201	4026	Phe-11 to Glu-18.	AR060: 3, AR316: 3, AR089: 2 H0392: 1		

1420	HMMAA09	822859	1430	127 - 231	4027		H0444: 1		
1421	HMMAK92	610100	1431	120 - 224	4028		H0444: 1		
1422	HMMAL32	562033	1432	276 - 419	4029	Lys-39 to Lys-48.	AR089: 2, AR316: 1 H0444: 1		
1423	HMMBD19	607468	1433	290 - 319	4030		L0471: 2, L0361: 2, L0641: 1, H0672: 1, L0755: 1 and H0444: 1.		
1424	HMMBF22	780406	1434	42 - 149	4031		S0114: 1, S0134: 1, H0644: 1, H0040: 1 and H0444: 1.	3p25.3-3p24.1	193300, 193300, 227646, 601154
1425	HMMBH91	607472	1435	234 - 302	4032		H0444: 1		
1426	HMMBH94	607463	1436	86 - 148	4033		H0444: 1		
1427	HMMBK55	608179	1437	260 - 385	4034		S0426: 1 and H0444: 1.		
1428	HMMBQ31	609882	1438	85 - 198	4035	Arg-24 to Arg-35.	H0619: 1, H0309: 1, L0375: 1, L0754: 1 and H0444: 1.		
1429	HMMBR63	607831	1439	271 - 405	4036		L0527: 2, H0306: 1, H0589: 1, H0587: 1, H0673: 1, L0763: 1, L0761: 1, L0766: 1, L0805: 1, L0526: 1, L0666: 1, L0665: 1, L0779: 1, L0758: 1, L0759: 1, H0444: 1 and S0276: 1.		
1430	HMMBS55	664493	1440	103 - 225	4037		H0040: 2 and H0444: 1.		
1431	HMMBT47	804594	1441	43 - 195	4038	Pro-41 to Leu-47.	H0444: 1		
1432	HMMCD35	607840	1442	308 - 436	4039		L0517: 1, H0521: 1 and H0444: 1.		
1433	HMMCD95	603202	1443	236 - 289	4040		AR089: 21, AR316: 15, AR060: 9 S0010: 1 and H0444: 1.		
1434	HMPAB26	580854	1444	563 - 583	4041		AR246: 5, AR162: 4, AR235: 3, AR243: 3, AR168: 3, AR282: 2, AR171: 2, AR177: 2, AR309: 2, AR271: 2, AR161: 2, AR197: 2, AR270: 2, AR224: 2, AR214: 1, AR277: 1, AR181: 1, AR212: 1, AR178: 1, AR089: 1, AR183: 1 L0766: 3, L0803: 2, L0759:	12q21.33-q23.1	124200, 147440, 160781, 600175

1435	HMPAP48	823359	1445	48 - 149	4042	Asn-19 to Thr-33.	2, H0170: 1, T0049: 1, H0069: 1, H0263: 1, H0060: 1, H0400: 1, H0038: 1, H0634: 1, L0770: 1, L0800: 1, L0764: 1, L0804: 1, L0774: 1, L0805: 1, L0664: 1, S0216: 1, S0406: 1, L0439: 1, L0740: 1, L0750: 1, L0786: 1, L0779: 1, L0777: 1, L0752: 1, L0755: 1, L0758: 1, H0542: 1 and H0422: 1. H0060: 1	3p21.2-p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 238310, 600163, 601226
1436	HMQAI38	589964	1446	24 - 86	4043		L0794: 3, H0634: 2, H0220: 1 and H0250: 1.		
1437	HMQAT69	799551	1447	243 - 659	4044	Pro-65 to Leu-78, Ala-87 to Gln-95.	L0439: 8, L0803: 6, L0777: 6, H0250: 5, H0556: 4, H0590: 4, H0622: 4, L0748: 4, S0040: 3, H0618: 3, S0003: 3, H0553: 3, H0032: 3, H0616: 3, L0794: 3, L0743: 3, H0265: 2, H0717: 2, S0046: 2, S0132: 2, H0619: 2, H0550: 2, H0069: 2, H0036: 2, H0615: 2, H0424: 2, H0644: 2, L0143: 2, H0628: 2, H0038: 2, H0634: 2, H0264: 2, S0002: 2, L0806: 2, L0776: 2, L0809: 2, L0788: 2, H0144: 2, H0448: 2, S0027: 2, S0031: 2, H0136: 2, S0276: 2, H0423: 2, L0600: 2, H0624: 1, H0716: 1, S0134: 1, S0356: 1, S0354: 1, S0468: 1, H0261: 1, H0549: 1, H0357: 1, H0438: 1, H0592: 1, H0632: 1, H0013: 1, H0156: 1, H0575: 1, S0049: 1, H0310: 1, H0052: 1	6q25.1-q26	100678, 133430, 133430, 147280, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544

							1, H0251: 1, H0309: 1, T0115: 1, H0544: 1, H0545: 1, H0123: 1, H0050: 1, H0024: 1, H0057: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, S6028: 1, H0286: 1, S0250: 1, S0214: 1, H0039: 1, T0023: 1, L0483: 1, H0401: 1, H0031: 1, L0142: 1, H0169: 1, H0135: 1, H0591: 1, H0059: 1, L0351: 1, H0494: 1, S0352: 1, H0652: 1, S0344: 1, L0763: 1, L0373: 1, L0800: 1, L0773: 1, L0768: 1, L0766: 1, L0649: 1, L0774: 1, L0805: 1, L0659: 1, L0384: 1, L0666: 1, L0665: 1, H0693: 1, L0438: 1, S0126: 1, H0672: 1, H0539: 1, S0380: 1, L0602: 1, S0332: 1, H0696: 1, S0174: 1, S0406: 1, H0576: 1, S3012: 1, L0740: 1, L0754: 1, L0779: 1, L0757: 1, S0434: 1, L0591: 1, L0599: 1, S0026: 1 and H0422: 1.				
1438	HMQBL90	600363	1448	57 - 233	4045	Leu-6 to Gly-13, Pro-34 to Ser-45, Pro-47 to Thr-57.	L0748: 2, L0439: 2, L0740: 2, L0750: 2, S0114: 1, H0255: 1, H0250: 1, H0036: 1, L0638: 1, L0662: 1 and L0747: 1. H0486: 1, H0250: 1, H0634: 1, S0002: 1, L0640: 1, H0547: 1, H0521: 1, L0439: 1, L0756: 1, L0731: 1, L0758: 1, S0196: 1 and H0423: 1.				
1439	HMQBV82	826522	1449	499 - 516	4046						
1440	HMQCA75	767086	1450	239 - 328	4047	His-18 to Ala-26.	L0748: 5, L0794: 4, L0438: 4, L0779: 4, L0752: 4, H0124: 3, L0803: 3, L0777: 3, H0556: 2, H0046: 2, L0771: 2, L0766: 2, L0791: 2, L0743: 2, L0747: 2, H0657: 1, H0664: 1, S0420: 1, H0392: 1, H0250: 1, H0085:				
1441	HMQCB37	732168	1451	288 - 299	4048						

									1, H0620: 1, H0071: 1, H0213: 1, H0417: 1, H0087: 1, T0067: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0773: 1, L0768: 1, L0805: 1, L0807: 1, L0512: 1, L0783: 1, L0790: 1, L0664: 1, H0670: 1, S0330: 1, H0539: 1, H0522: 1, L0740: 1, L0758: 1, L0759: 1 and H0352: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</
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1445	HMQDU07	603180	1455	159 - 299	4052			H0250: 117, L0748: 4, S0376: 1, H0393: 1, H0252: 1, L0766: 1, L0807: 1 and S0330: 1.			
1446	HMSAP33	731969	1456		4053			H0179: 1, H0264: 1, S0002: 1 and H0521: 1.			
1447	HMSAZ48	877650	1457	225 - 299	4054			L0748: 2, S0002: 1 and L0749: 1.			
1448	HMSBN18	847405	1458	231 - 338	4055		Pro-22 to Gly-29.	H0046: 6, L0794: 4, H0547: 4, L0439: 3, L0779: 3, H0543: 3, L0454: 2, L0768: 2, L0663: 2, L0665: 2, L0749: 2, L0777: 2, H0716: 1, H0657: 1, H0662: 1, S0278: 1, T0039: 1, H0013: 1, H0052: 1, L0471: 1, H0591: 1, H0264: 1, S0440: 1, S0150: 1, S0002: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0378: 1, L0806: 1, L0666: 1, H0519: 1, H0539: 1, H0521: 1, S0176: 1, H0555: 1, L0747: 1, L0755: 1, L0731: 1, L0758: 1, L0362: 1 and S0424: 1.			
1449	HMSBS25	826487	1459	151 - 258	4056		Pro-19 to Cys-27.	S0002: 1			
1450	HMSBU14	844443	1460	233 - 307	4057		Ser-12 to Gly-19.	S0002: 1			
1451	HMSBZ10	610020	1461	240 - 326	4058			S0002: 1 and L0603: 1.			
1452	HMSCB94	847406	1462	97 - 162	4059		Met-1 to Ala-7.	S0134: 1, H0415: 1, S0002: 1 and H0519: 1.			
1453	HMSCK12	825475	1463	257 - 310	4060			AR089: 13, AR316: 10, AR060: 8 S0002: 1			

1454	HMSCP63	665517	1464	132 - 164	4061			S0002: 1			
1455	HMSCV75	838530	1465	146 - 232	4062			AR089: 9, AR316: 8, AR060: 7 S0002: 1			
1456	HMSCV85	858776	1466	336 - 431	4063			H0556: 2, H0402: 2, H0265: 1, H0318: 1, H0169: 1, H0131: 1, S0002: 1, L0792: 1 and L0663: 1.			
1457	HMSCW44	716249	1467	177 - 290	4064			S0282: 1, H0013: 1, S0002: 1, S0426: 1 and L0748: 1.			
1458	HMSCZ19	847408	1468	157 - 690	4065	Pro-102 to Asn-112, Gly-129 to Tyr-135, Pro-137 to Lys-143, Gln-168 to Trp-173.		L0731: 6, L0803: 5, H0547: 5, L0598: 4, L0754: 4, L0779: 4, H0543: 4, H0393: 3, S0222: 3, H0581: 3, H0544: 3, H0615: 3, L0646: 3, H0522: 3, L0750: 3, L0758: 3, H0423: 3, L0717: 2, S0278: 2, H0586: 2, H0013: 2, L0163: 2, L0143: 2, H0494: 2, S0422: 2, H0529: 2, L0776: 2, L0659: 2, L0663: 2, S0428: 2, H0520: 2, H0670: 2, H0521: 2, L0756: 2, L0780: 2, L0752: 2, L0362: 2, H0422: 2, H0624: 1, H0650: 1, S0420: 1, T0008: 1, H0411: 1, H0455: 1, H0438: 1, H0592: 1, H0497: 1, H0574: 1, H0486: 1, H0575: 1, S0010: 1, H0052: 1, H0596: 1, L0157: 1, H0083: 1, H0266: 1, H0286: 1, S0003: 1, S0214: 1, H0328: 1, H0031: 1, H0032: 1, L0455: 1, H0591: 1, H0412: 1, H0413: 1, H0056: 1, H0100: 1, T0042: 1, H0560: 1, S0150: 1, H0646: 1, S0142: 1, S0002: 1, L0641: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0784: 1, L0809: 1, L0529: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, H0666: 1, S0152: 1,			

1459	HMSDI67	827298	1469	851 - 1132	4066		1, S0037: 1, S3014: 1, S0027: 1, L0751: 1, L0759: 1, L0605: 1, L0485: 1, H0653: 1, S0196: 1 and H0352: 1.		
1460	HMSDI79	813514	1470	347 - 388	4067		H0263: 1 and S0002: 1. L0439: 8, L0748: 4, S0002: 3, S0196: 3, S0045: 2, H0023: 2, S0142: 2, L0764: 2, L0754: 2, S0376: 1, S0300: 1, H0156: 1, S0010: 1, H0015: 1, H0083: 1, T0006: 1, L0351: 1, L0435: 1, H0641: 1, L0805: 1, L0636: 1, L0809: 1, L0790: 1, H0689: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1 and H0677: 1.		
1461	HMSDR28	801948	1471	102 - 176	4068		AR089: 14, AR316: 10, AR060: 7 H0031: 9, S0002: 3, L0794: 3, L0777: 3, L0759: 3, H0046: 2, H0266: 2, H0214: 2, S0114: 1, S0420: 1, H0574: 1, H0486: 1, H0036: 1, H0050: 1, S0051: 1, H0644: 1, T0042: 1, H0538: 1, S0426: 1, L0768: 1, L0766: 1, L0606: 1, L0789: 1, L0790: 1, L0791: 1, L0663: 1, L0665: 1, S0380: 1, S0152: 1, H0134: 1, S3014: 1, L0749: 1, L0758: 1 and H0653: 1.		
1462	HMSFT25	581069	1472	154 - 237	4069		S0002: 1		
1463	HMSFW52	603177	1473	60 - 116	4070		S0002: 1 and L0748: 1.		
1464	HMSGT73	737837	1474	181 - 345	4071		S0002: 1		
1465	HMSGU30	847409	1475	738 - 974	4072		AR287: 15, AR291: 10, AR296: 9, AR235: 9, AR285: 9, AR261: 9, AR258: 8, AR250: 8, AR236: 8, AR297: 8,		



[illegible]

1466	HMSHB42	792385	1476	1556 - 1567	4073		AR211: 3, AR312: 3, AR195: 3, AR247: 3, AR199: 3, AR210: 3, AR316: 3, AR216: 3, AR207: 3, AR226: 3, AR060: 3, AR237: 3, AR203: 3, AR283: 3, AR239: 3, AR218: 3, AR308: 3, AR219: 3, AR277: 2, AR232: 2, AR225: 2, AR309: 2, AR217: 2, AR171: 2, AR033: 2, AR212: 2, AR227: 2, AR168: 2, AR055: 2, AR230: 2, AR222: 2, AR061: 2, AR254: 1 L0766: 7, L0769: 4, L0747: 4, L0758: 4, H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1. H0090: 7, L0803: 6, L0752: 6, L0748: 5, S0360: 4, H0622:	3p21-p13	139330, 139360, 150250, 156845,
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1467	HMSHB42	600401	1477	182 - 283	4074		H0090: 7, L0803: 6, L0752: 6, L0748: 5, S0360: 4, H0622: 4, L0749: 4, H0038: 3, S0002: 3, L0794: 3, L0804: 3, L0663: 3, H0539: 3, L0777: 3, H0543: 3, H0052: 2, H0046: 2, L0764: 2, L0774: 2, L0784: 2, L0805: 2, L0809: 2, L0789: 2, L0666: 2, H0144: 2, S0380: 2, H0521: 2, L0439: 2, L0756: 2, L0758: 2, H0423: 2, H0170: 1, H0265: 1, H0556: 1, S0134: 1, H0306: 1, H0638: 1, S0376: 1, H0393: 1, H0550: 1, H0438: 1, H0486: 1, H0427: 1, H0581: 1, H0596: 1, H0123: 1, H0050: 1, T0010: 1, H0375: 1, H0266: 1, H0039: 1, H0163: 1, H0591: 1, H0616: 1, H0056: 1, H0560: 1, H0652: 1, L0598: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L4747: 1, L0667: 1, L0766: 1, L0776: 1, L0659: 1, L0542: 1, L0647: 1, L2269: 1, L0664: 1, S0126: 1, H0690: 1, H0682: 1, H0659: 1, H0648: 1, H0518: 1, H0436: 1, H0478: 1, L0745: 1, L0779: 1, L0753: 1, L0759: 1, L0594: 1 and H0422: 1.	3p21-p13	139330, 139360, 150250, 156845, 156845, 156845, 164500, 182280, 600151, 600163, 600971, 601226, 601267, 601373			

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1468	HMSHN72	855917	1478	84 - 197	4075		S0002: 2, L0770: 2, L0748: 2, L0746: 2, H0402: 1, H0580: 1, H0581: 1, L0598: 1, L0645: 1, L0662: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0657: 1, S0052: 1, H0648: 1, L0731: 1, H0445: 1 and L0603: 1.	17		
1469	HMSHT29	825459	1479	488 - 604	4076	Met-1 to Lys-8.	AR060: 6, AR316: 5, AR089: 3 S0002: 1 and L0749: 1.			
1470	HMSHW73	704099	1480	57 - 125	4077		S0002: 2, S0114: 1 and S0426: 1.			
1471	HMSIC48	825462	1481	271 - 309	4078		H0050: 2 and S0002: 2.			
1472	HMSII36	825453	1482	222 - 383	4079	Pro-16 to Ala-30.	S0002: 1			
1473	HMSIT42	581070	1483	164 - 358	4080	Tyr-57 to Ser-64.	AR313: 53, AR241: 39, AR229: 27, AR096: 23, AR184: 23, AR240: 22, AR089: 20, AR219: 20, AR198: 19, AR182: 19, AR238: 19, AR185: 19, AR299: 18, AR269: 18, AR218: 18, AR258: 18, AR247: 18, AR300: 17,			

								AR192: 17, AR270: 16, AR204: 16, AR237: 15, AR293: 15, AR312: 15, AR226: 15, AR268: 15, AR175: 14, AR233: 14, AR243: 14, AR060: 14, AR177: 14, AR316: 14, AR186: 13, AR271: 13, AR231: 13, AR183: 13, AR234: 12, AR227: 12, AR296: 12, AR179: 12, AR039: 12, AR248: 11, AR275: 11, AR292: 11, AR244: 11, AR253: 10, AR194: 10, AR290: 10, AR249: 10, AR285: 10, AR265: 10, AR282: 10, AR052: 10, AR274: 10, AR259: 9, AR104: 9, AR033: 9, AR267: 9, AR277: 9, AR294: 9, AR053: 9, AR314: 9, AR251: 9, AR273: 8, AR298: 8, AR315: 8, AR286: 8, AR246: 8, AR213: 7, AR280: 7, AR256: 7, AR289: 7, AR206: 7, AR291: 6, AR266: 6, AR310: 6, AR309: 6, AR232: 6, AR295: 6, AR284: 5, AR205: 5, AR263: 4, AR055: 4, AR061: 4, AR281: 4, AR283: 3, AR202: 3 S0140: 2, L0766: 2, L0754: 2, S0376: 1, H0580: 1, H0036: 1, S0050: 1, S0002: 1, L0598: 1, L0651: 1, L0663: 1, H0710: 1, H0694: 1, L0756: 1 and
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1474	HMSJB08	877651	1484	141 - 257	4081	L0779: 1. AR231: 8, AR180: 5, AR250: 5, AR096: 5, AR039: 5, AR264: 4, AR181: 4, AR282: 4, AR190: 4, AR053: 4, AR263: 4, AR205: 4, AR266: 4, AR252: 4, AR299: 4, AR272: 4, AR229: 4, AR212: 4, AR199: 4, AR178: 4, AR311: 4, AR183: 4, AR271: 4, AR169: 3, AR312: 3, AR308: 3, AR224: 3, AR191: 3, AR173: 3, AR161: 3, AR165: 3, AR163: 3, AR162: 3, AR164: 3, AR175: 3, AR166: 3, AR269: 3, AR179: 3, AR195: 3, AR168: 3, AR174: 3, AR268: 3, AR287: 3, AR242: 3, AR221: 3, AR225: 3, AR189: 3, AR177: 3, AR270: 3, AR288: 3, AR185: 3, AR210: 3, AR291: 3, AR188: 3, AR207: 2, AR197: 2, AR295: 2, AR236: 2, AR223: 2, AR277: 2, AR200: 2, AR262: 2, AR293: 2, AR104: 2, AR203: 2, AR274: 2, AR309: 2, AR285: 2, AR267: 2, AR300: 2, AR286: 2, AR176: 2, AR233: 2, AR283: 2, AR171: 2, AR230: 2, AR226: 2, AR294: 2,		
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1480	HMTAF92	740784	1490	1554 - 1649	4087		1, L0748: 1 and L0749: 1. AR089: 3, AR316: 3, AR060: 2 L0439: 7, L0483: 4, H0457: 3, H0518: 3, L0748: 3, L0608: 3, L0362: 3, H0090: 2, L0667: 2, L0662: 2, L0766: 2, L0776: 2, L0749: 2, L0777: 2, L0758: 2, H0624: 1, S0134: 1, H0583: 1, H0656: 1, S0116: 1, H0341: 1, S0418: 1, S0442: 1, S0358: 1, S0360: 1, S0476: 1, H0619: 1, H0635: 1, H0575: 1, H0590: 1, L0471: 1, H0271: 1, H0428: 1, L0055: 1, H0032: 1, H0591: 1, H0634: 1, T0042: 1, H0494: 1, H0561: 1, H0509: 1, S0426: 1, L0763: 1, L0770: 1, L0372: 1, L0646: 1, L0374: 1, L0794: 1, L0803: 1, L0806: 1, L0805: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0547: 1, H0696: 1, S0027: 1, L0754: 1, L0731: 1, H0595: 1, L0596: 1, H0668: 1, S0026: 1, H0543: 1, L0465: 1, S0424: 1 and H0352: 1.	15q22.3	151670, 600374, 601780
1481	HMTAT36	811885	1491	198 - 338	4088		S0442: 6, L0777: 6, L0731: 5, L0775: 4, H0024: 3, H0586: 2, H0648: 2, H0521: 2, L0748: 2, H0638: 1, S0358: 1, S0376: 1, S0360: 1, H0587: 1, H0641: 1, H0646: 1, L0770: 1, L0643: 1, L0363: 1, L0803: 1, L0804: 1, L0783: 1, L0787: 1, L0666: 1, L0665: 1, H0593: 1, H0518: 1, S0406: 1 and L0779: 1.		
1482	HMUAB93	822909	1492	200 - 304	4089		L0748: 4, H0687: 2, L0527: 2, S0282: 1, H0661: 1, S0045: 1, H0013: 1, H0012: 1, S0036: 1, H0529: 1, L0770: 1, L0766:		



1483	HMUAD65	809097	1493	209 - 307	4090		1, L0803: 1, L0805: 1, L0809: 1, L0666: 1, H0658: 1, H0521: 1, L0747: 1 and L0779: 1. H0560: 1, H0529: 1 and H0542: 1.			
1484	HMUAT23	897758	1494	30 - 131	4091		L0804: 5, L0766: 4, L0777: 4, H0638: 3, L0770: 3, L0794: 3, L0803: 3, L0805: 3, L0599: 3, H0716: 2, S0212: 2, H0046: 2, H0413: 2, H0623: 2, H0641: 2, S0422: 2, H0529: 2, S0374: 2, L0754: 2, L0779: 2, L0759: 2, L0596: 2, S0418: 1, L0005: 1, S0356: 1, S0358: 1, S0007: 1, H0333: 1, H0574: 1, H0486: 1, H0013: 1, H0599: 1, H0042: 1, L0471: 1, H0051: 1, S6028: 1, S0003: 1, H0428: 1, H0616: 1, T0041: 1, H0560: 1, H0646: 1, L0646: 1, L0651: 1, L0806: 1, L0652: 1, L0809: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0520: 1, H0522: 1, S0188: 1, S0146: 1 and S0031: 1.	13q21.2- 13q22.1		256731, 602085
1485	HMUBA47	786380	1495	1074 - 1154	4092		AR089: 8, AR316: 7, AR060: 6 L0439: 11, L0747: 11, L0731: 8, L0769: 7, S0474: 6, L0758: 6, S0360: 5, H0521: 5, L0779: 5, L0766: 4, L0659: 4, S0003: 3, L0775: 3, L0653: 3, L0438: 3, L0748: 3, S0050: 2, S0426: 2, L0667: 2, L0375: 2, L0805: 2, L0783: 2, S0328: 2, L0754: 2, L0757: 2, L0591: 2, L0599: 2, S0410: 1, H0580: 1, S0007: 1, H0391: 1, S0049: 1, H0231: 1, H0545: 1, H0024: 1, S0388: 1, S0051: 1, H0067: 1,	18p11.3		142946

1486	HMUBJ22	824071	1496	201 - 299	4093			H0328: 1, H0644: 1, H0616: 1, L0435: 1, S0002: 1, H0529: 1, L0770: 1, L0796: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0768: 1, L0647: 1, L0666: 1, L0665: 1, H0648: 1, H0672: 1, S0044: 1, L0751: 1, L0749: 1, L0756: 1, L0759: 1, S0260: 1, H0445: 1, S0434: 1, S0276: 1, S0458: 1 and H0506: 1.		
								L0754: 8, S0360: 3, L0747: 3, H0024: 2, H0529: 2, L0740: 2, L0755: 2, H0170: 1, S0132: 1, H0497: 1, H0037: 1, H0590: 1, H0544: 1, S0051: 1, H0428: 1, S0210: 1, H0689: 1, H0658: 1, H0670: 1, H0521: 1, L0758: 1, L0686: 1, H0668: 1, H0667: 1 and H0008: 1.		
1487	HMUBK53	553624	1497	247 - 606	4094	Ser-33 to Arg-42, Ser-51 to Ser-56, Asn-109 to Phe-119.		AR202: 87, AR039: 71, AR194: 63, AR244: 62, AR205: 60, AR246: 58, AR206: 58, AR241: 51, AR192: 46, AR198: 43, AR263: 43, AR243: 43, AR204: 41, AR271: 40, AR213: 37, AR232: 36, AR310: 35, AR275: 34, AR265: 34, AR053: 33, AR274: 30, AR104: 28, AR295: 28, AR251: 27, AR284: 27, AR273: 26, AR266: 25, AR309: 24, AR177: 24, AR289: 23, AR240: 23, AR291: 23, AR282: 22, AR312: 22, AR096: 22, AR299: 22, AR270: 21, AR316: 21, AR285: 20, AR296: 19,	8	

							AR218: 19, AR227: 19, AR033: 19, AR238: 19, AR052: 19, AR277: 18, AR313: 18, AR231: 18, AR256: 17, AR247: 17, AR226: 17, AR234: 17, AR237: 16, AR175: 16, AR183: 16, AR089: 16, AR182: 15, AR268: 15, AR292: 15, AR060: 14, AR186: 14, AR269: 14, AR286: 14, AR185: 14, AR219: 14, AR298: 14, AR258: 13, AR253: 13, AR229: 13, AR233: 12, AR293: 12, AR290: 12, AR294: 12, AR259: 12, AR267: 10, AR184: 10, AR248: 10, AR300: 10, AR179: 9, AR061: 9, AR055: 8, AR249: 8, AR283: 6 H0553: 3, S0414: 2, H0031: 2, H0625: 2, H0529: 2, S0126: 2, L0742: 2, L0439: 2, L0779: 2, H0656: 1, S0222: 1, H0333: 1, S0010: 1, H0050: 1, T0010: 1, H0266: 1, S0318: 1, S0316: 1, S0003: 1, H0428: 1, H0551: 1, H0100: 1, S0344: 1, L0766: 1, L0805: 1, L0665: 1, H0144: 1, H0690: 1, H0670: 1, S0380: 1, L0756: 1, L0731: 1 and H0423: 1.					
1488	HMUBN24	647633	1498	272 - 325	4095		AR060: 1 H0529: 2					
1489	HMUBO15	597434	1499	120 - 290	4096		AR089: 21, AR316: 16, AR060: 12 L0756: 4, L0662: 3, L0748: 3, L0598: 2, L0805: 2, L0731:	13q34		153900, 180381, 227500, 227600, 238970		

									2, L0758: 2, L0759: 2, S0040: 1, H0069: 1, H0052: 1, T0006: 1, H0644: 1, S0440: 1, H0647: 1, S0142: 1, H0529: 1, L0763: 1, L0638: 1, L0790: 1, H0519: 1, H0659: 1, H0478: 1, S0206: 1, H0445: 1, S0434: 1, L0581: 1, S0026: 1 and S0276: 1.			
1490	HMUBX48	847412	1500	256 - 525	4097				H0040: 2 and H0529: 1.			
1491	HMUBY57	844800	1501	1085 - 1177	4098				L0754: 4, S0358: 2, H0529: 2, L0766: 2, H0518: 2, L0751: 2, L0601: 2, H0556: 1, H0485: 1, H0318: 1, H0421: 1, S0250: 1, H0032: 1, H0494: 1, L0598: 1, L0776: 1, L0782: 1, H0547: 1, H0689: 1, S0152: 1, S014: 1, L0747: 1, L0759: 1 and L0596: 1.			
1492	HMUBZ15	609837	1502	137 - 259	4099	Leu-11 to Ala-21, Glu-34 to Ala-39.			AR089: 16, AR316: 14, AR060: 12 H0038: 9, L0766: 8, L0758: 8, L0769: 7, H0024: 5, L0774: 5, S0358: 4, L0776: 4, L0744: 4, L0740: 4, L0759: 4, S0360: 3, H0208: 3, H0618: 3, H0083: 3, H0424: 3, L0770: 3, L0771: 3, L0663: 3, L0748: 3, L0747: 3, T0002: 2, S0134: 2, H0650: 2, H0656: 2, H0333: 2, L0157: 2, H0200: 2, H0039: 2, H0617: 2, H0616: 2, H0529: 2, L0763: 2, L0772: 2, L0764: 2, L0662: 2, L0809: 2, S0126: 2, H0658: 2, H0522: 2, H0696: 2, L0750: 2, L0590: 2, L0601: 2, H0265: 1, H0556: 1, S0040: 1, S0114: 1, H0657: 1, S0116: 1, H0341: 1, H0484: 1, H0254: 1, H0661: 1, S0444: 1, H0637: 1, H0580: 1, S0007: 1, S0045: 1, S0046: 1	3p21.2-24.2		154705, 168468, 182280, 227646, 238310, 600163, 601154, 601226

							1, H0619: 1, H0351: 1, S0278: 1, S0222: 1, H0574: 1, S0280: 1, H0253: 1, H0318: 1, H0581: 1, S0049: 1, H0209: 1, H0597: 1, H0546: 1, H0373: 1, S0320: 1, H0355: 1, H0266: 1, H0188: 1, H0033: 1, H0405: 1, H0644: 1, S0036: 1, H0087: 1, H0396: 1, H0641: 1, S0142: 1, L0796: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0387: 1, L0775: 1, L0375: 1, L0806: 1, L0540: 1, L0542: 1, L0783: 1, S0374: 1, H0520: 1, H0682: 1, H0539: 1, S0378: 1, S0152: 1, H0134: 1, H0187: 1, L0742: 1, L0743: 1, L0779: 1, L0755: 1, S0260: 1, L0581: 1, H0668: 1 and L0600: 1.				
1493	HMVAL15	822860	1503	385 - 495	4100		L0803: 5, L0750: 4, H0650: 3, H0656: 3, L0766: 3, L0747: 3, T0002: 2, H0486: 2, L0761: 2, L0774: 2, L0657: 2, L0666: 2, H0547: 2, L0754: 2, S0212: 1, H0255: 1, H0305: 1, H0589: 1, S0360: 1, H0550: 1, H0042: 1, S0010: 1, H0286: 1, H0553: 1, H0644: 1, L0055: 1, L0667: 1, L0764: 1, L0782: 1, L0783: 1, L0809: 1, H0519: 1, H0670: 1, L0779: 1, L0777: 1, L0752: 1, L0757: 1, L0759: 1, L0588: 1, L0592: 1, H0677: 1 and H0352: 1.				
1494	HMVBC84	743191	1504	69 - 191	4101		AR089: 3, AR316: 2, AR060: 2 S0212: 1, S0408: 1, S0222: 1 and H0357: 1.				
1495	HMVBD68	831130	1505	467 - 535	4102		L0745: 6, S0360: 4, S0440: 2, H0341: 1, S0212: 1, L0717: 1				

								1, H0587: 1, H0497: 1, H0574: 1, H0687: 1, H0428: 1, S0422: 1, L0667: 1, L0645: 1, L0662: 1, L0768: 1, L0649: 1, L0518: 1, H0435: 1, S0380: 1, H0518: 1, L0754: 1, L0746: 1, S0434: 1, L0592: 1 and S0424: 1.			
1496	HMVCG17	846161	1506	253 - 450	4103	Thr-28 to Leu-34, Pro-36 to Trp-47.		AR089: 17, AR316: 14, AR060: 11 L0766: 4, L0775: 3, L0803: 2, S0212: 1, L0763: 1, L0637: 1, L0764: 1, L0794: 1, L0751: 1, L0754: 1 and L0759: 1.			
1497	HMVCS92	842832	1507	323 - 427	4104			AR089: 1, AR060: 1 L0766: 3, L0758: 3, H0615: 2, L0805: 2, L0748: 2, L0754: 2, L0749: 2, S0212: 1, H0042: 1, H0597: 1, S0003: 1, L0520: 1, S0330: 1, L0750: 1, L0777: 1, L0752: 1, S0260: 1 and H0444: 1.			
1498	HMVCS92	846141	1508	323 - 466	4105			AR089: 1, AR060: 1 L0766: 3, L0758: 3, H0615: 2, L0805: 2, L0748: 2, L0754: 2, L0749: 2, S0212: 1, H0042: 1, H0597: 1, S0003: 1, L0520: 1, S0330: 1, L0750: 1, L0777: 1, L0752: 1, S0260: 1 and H0444: 1.			
1499	HMVDB45	852147	1509	179 - 187	4106			L0438: 4, L0439: 2, L0749: 2, L0756: 2, S0212: 1, L0717: 1, L0662: 1, L0649: 1, L0805: 1, L0787: 1 and L0758: 1.			
1500	HMVDJ71	863508	1510	332 - 589	4107	Pro-39 to Tyr-45, Pro-47 to Pro-54.		AR291: 10, AR183: 10, AR184: 9, AR296: 8, AR293: 8, AR292: 8, AR298: 8, AR313: 7, AR285: 6, AR289: 6, AR275: 6, AR238: 6,	20		

[illegible]

1501	HMVD89	831127	1511	2 - 433	4108	Gln-23 to Leu-34, Asp-45 to Arg-60.	<p>1, H0686: 1, S0040: 1, H0650: 1, L0778: 1, S0212: 1, S0282: 1, H0255: 1, S0420: 1, S0360: 1, S0007: 1, H0441: 1, H0370: 1, H0392: 1, H0438: 1, H0013: 1, H0575: 1, H0122: 1, S0010: 1, H0581: 1, H0123: 1, S0388: 1, H0071: 1, H0266: 1, H0687: 1, L0055: 1, H0673: 1, S0036: 1, H0163: 1, H0412: 1, H0623: 1, T0041: 1, L0640: 1, L0763: 1, L0638: 1, L0800: 1, L0645: 1, L0771: 1, L0364: 1, L0794: 1, L0803: 1, L0659: 1, L0791: 1, L0666: 1, H0520: 1, H0593: 1, H0660: 1, S0378: 1, S0152: 1, L0439: 1, L0777: 1, H0445: 1, S0011: 1 and S0242: 1.</p> <p>AR060: 2, AR316: 2, AR089: 2</p> <p>L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2, L0604: 2, L0603: 2, S0298: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0632: 1, H0156: 1, H0421: 1, H0196: 1, H0052: 1, L0738: 1, H0009: 1, L0471: 1, H0239: 1, S0003: 1, T0067: 1, H0413: 1, H0059: 1, S0438: 1, S0440: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, S0374: 1, H0659: 1, S0328: 1, S0152: 1, S0404: 1.</p>		
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1502	HMVDT89	875313	1512	285 - 326	4109				1, S0406: 1, S0027: 1, L0439: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1 and S0242: 1. AR060: 2, AR316: 2, AR089: 2 L0752: 24, L0751: 7, L0748: 6, L0777: 6, L0775: 5, L0742: 5, L0749: 5, S0358: 4, L0776: 4, L0756: 4, S0376: 3, L0757: 3, S0212: 2, S0444: 2, S0010: 2, L0770: 2, L0764: 2, L0773: 2, L0774: 2, H0519: 2, L0743: 2, L0740: 2, L0731: 2, L0758: 2, L0604: 2, L0603: 2, S0298: 1, H0661: 1, S0442: 1, S0354: 1, S0360: 1, S0408: 1, H0632: 1, H0156: 1, H0421: 1, H0196: 1, H0052: 1, L0738: 1, H0009: 1, L0471: 1, H0239: 1, S0003: 1, T0067: 1, H0413: 1, H0059: 1, S0438: 1, S0440: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, S0374: 1, H0659: 1, S0328: 1, S0152: 1, S0404: 1, S0406: 1, S0027: 1, L0439: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1 and S0242: 1.		
1503	HMWAO65	839268	1513	340 - 420	4110				AR060: 12, AR316: 11, AR089: 10 H0341: 6, S0358: 5, S0142: 4, H0543: 3, H0423: 3, H0638: 2, S0344: 2, S0422: 2, S0404: 2, H0556: 1, S0116: 1, H0663: 1, S0444: 1, S0360: 1, H0580: 1, S0045: 1, S0278: 1, H0592: 1, H0596: 1, H0009: 1, L0471: 1, H0083: 1, H0060: 1, S0003: 1, H0615: 1, H0090: 1, H0040: 1, H0063: 1, H0412: 1, H0494: 1.		

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1504	HMWAO82	825427	1514	72 - 194	4111	Arg-19 to Gln-24, Cys-33 to Lys-38.		H0341: 1				
1505	HMWBD74	711155	1515	410 - 472	4112	Gln-15 to Glu-20.		AR060: 12, AR316: 11, AR089: 10 S0412: 14, L0439: 11, L0471: 7, L0662: 5, L0731: 5, H0341: 4, H0009: 4, L0776: 4, L0438: 4, L0777: 4, S0360: 3, H0392: 3, H0251: 3, H0551: 3, L0794: 3, L0805: 3, L0657: 3, L0809: 3, L0666: 3, S0328: 3, H0696: 3, L0759: 3, H0656: 2, S0007: 2, H0600: 2, H0024: 2, H0014: 2, H0252: 2, L0483: 2, H0040: 2, S0426: 2, L0598: 2, H0529: 2, L0769: 2, L0637: 2, L0649: 2, L0659: 2, L0664: 2, L0665: 2, L0565: 2, H0547: 2, H0659: 2, H0670: 2, H0666: 2, L0743: 2, L0744: 2, L0748: 2, L0750: 2, S0192: 2, S0242: 2, S0196: 2, H0170: 1, S0040: 1, H0583: 1, H0402: 1, L0005: 1, S0354: 1, S0444: 1, H0637: 1, S6022: 1, H0550: 1, H0427: 1, L2250: 1, H0596: 1, H0327: 1, H0546: 1, H0545: 1, H0046: 1, L0157: 1, H0563: 1, H0564: 1, H0123: 1, H0375: 1, H0687: 1, S0312: 1, S0314: 1, H0553: 1, H0412: 1, H0494: 1, H0560: 1, S0438: 1, L0520: 1, L0770: 1, L0638: 1, L5575: 1, L0761: 1,				

								L0772: 1, L0764: 1, L0773: 1, L0768: 1, L0375: 1, L0655: 1, L0527: 1, L0532: 1, L0663: 1, H0690: 1, H0682: 1, H0660: 1, S0330: 1, H0539: 1, S0152: 1, H0436: 1, H0631: 1, S3012: 1, S0037: 1, S3014: 1, L0741: 1, L0740: 1, L0754: 1, L0747: 1, L0786: 1, L0779: 1, L0755: 1, L0758: 1, H0444: 1, H0445: 1, H0343: 1, S0434: 1, L0608: 1 and L0366: 1.			
1506	HMWBK35	566888	1516	194 - 385	4113	Leu-52 to Cys-59.		AR089: 21, AR316: 16, AR060: 12 L0471: 2, H0038: 2, H0268: 2, H0556: 1, S0402: 1, H0341: 1, H0392: 1, H0486: 1, H0598: 1, L0633: 1, L0527: 1, L0517: 1, S0152: 1 and H0444: 1.			
1507	HMWBK86	654856	1517	268 - 288	4114			H0341: 1 and H0100: 1.			
1508	HMWBL38	602940	1518	31 - 132	4115			H0341: 1 and H0593: 1.			
1509	HMWBM48	566828	1519	11 - 52	4116			L0747: 9, L0748: 5, L0749: 5, H0090: 4, H0341: 3, H0413: 3, L0768: 3, L0766: 3, L0779: 3, L0758: 3, H0265: 2, S0040: 2, S0356: 2, H0351: 2, H0050: 2, S0003: 2, H0615: 2, H0553: 2, H0169: 2, S0422: 2, L0763: 2, L0770: 2, L0363: 2, L0649: 2, L0789: 2, L0665: 2, L0438: 2, L0439: 2, L0753: 2, L0593: 2, H0542: 2, H0624: 1, H0556: 1, H0686: 1, H0650: 1, H0657: 1, H0484: 1, H0669: 1, S0420: 1, S0046: 1, H0619: 1, L0717: 1, H0549: 1, H0370: 1, H0331: 1, H0427: 1, H0318: 1, H0581: 1, H0596: 1, H0046: 1, H0457: 1, H0086: 1, L0471: 1, H0024: 1, T0010: 1, H0083: 1, H0355: 1	3q21-q23	106165, 110100, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682	

1510	HMWCG28	847413	1520	78 - 200	4117		<p>1, S0338: 1, S0340: 1, H0328: 1, H0039: 1, H0048: 1, T0006: 1, S0366: 1, H0135: 1, H0038: 1, H0616: 1, H0063: 1, H0412: 1, H0494: 1, H0560: 1, L0065: 1, H0641: 1, H0529: 1, L0369: 1, L0639: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0662: 1, L0381: 1, L0650: 1, L0775: 1, L0776: 1, L0661: 1, L0659: 1, L0526: 1, L0382: 1, L0368: 1, L0666: 1, L0663: 1, S0374: 1, H0520: 1, H0519: 1, H0659: 1, H0658: 1, H0660: 1, H0539: 1, H0579: 1, H0521: 1, S0044: 1, H0555: 1, L0741: 1, L0754: 1, L0746: 1, L0750: 1, L0756: 1, L0777: 1, L0780: 1, L0752: 1, H0343: 1, H0707: 1, S0434: 1, L0594: 1, S0026: 1, S0192: 1 and H0423: 1.</p>	12p13.3	103950, 193100, 193400, 200990, 601458
							<p>L0439: 19, L0740: 16, L0748: 15, L0766: 12, H0052: 7, L0761: 7, L0741: 7, L0747: 7, H0135: 6, L0769: 6, L0438: 6, S0036: 4, L0770: 4, L0806: 4, L0752: 4, L0731: 4, H0327: 3, H0012: 3, T0010: 3, L0794: 3, L0803: 3, L0783: 3, L0809: 3, L0744: 3, L0758: 3, L0601: 3, H0341: 2, H0550: 2, H0333: 2, L0622: 2, H0599: 2, H0618: 2, H0318: 2, H0051: 2, S0388: 2, S0051: 2, H0100: 2, L0772: 2, L0774: 2, L0664: 2, S0380: 2, L0751: 2, L0745: 2, L0779: 2, L0777: 2, L0753: 2, L0485: 2, H0265: 1, H0381: 1, H0483: 1, S0418: 1, S0354: 1, S0444: 1, S0360: 1, S0046: 1, S0278: 1</p>		

1511	HMWCP85	757974	1521	116 - 160	4118			1, H0261: 1, H0455: 1, H0438: 1, H0574: 1, H0559: 1, L0623: 1, H0706: 1, T0048: 1, H0581: 1, H0251: 1, H0597: 1, H0544: 1, H0046: 1, H0457: 1, H0009: 1, H0081: 1, H0620: 1, H0200: 1, H0095: 1, H0275: 1, H0083: 1, H0354: 1, H0266: 1, H0328: 1, H0428: 1, H0070: 1, T0023: 1, H0673: 1, H0124: 1, H0038: 1, H0087: 1, L0351: 1, L0564: 1, H0560: 1, H0130: 1, S0344: 1, L0369: 1, L0763: 1, L0637: 1, L5575: 1, L5565: 1, L3905: 1, L0667: 1, L0641: 1, L0645: 1, L0764: 1, L0775: 1, L0376: 1, L0776: 1, L0606: 1, L0659: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0693: 1, H0547: 1, H0660: 1, H0539: 1, S0044: 1, H0436: 1, L0742: 1, L0749: 1, L0755: 1, L0759: 1, S0031: 1, S0260: 1, H0445: 1, H0707: 1, S0434: 1, L0581: 1, L0593: 1, S0194: 1, H0543: 1, H0423: 1 and H0506: 1.	5q31.2-q31.3	131400, 153455, 159000, 180071, 181460, 272750, 600807, 601596, 602089
1512	HMWDG30	623758	1522	3 - 623	4119	Trp-15 to Gly-21, Glu-32 to Phe-44, Asn-59 to Ala-65, Ser-73 to Asp-78, Glu-99 to Tyr-105, Glu-124 to Thr-130, Lys-138 to Val-148.	L0766: 10, L0794: 5, L0789: 3, H0543: 3, S0372: 2, L0805: 2, L0777: 2, H0668: 2, H0656: 1, H0341: 1, H0663: 1, S0376: 1, H0580: 1, H0586: 1, H0587: 1, H0046: 1, L0761: 1, L0662: 1, L0803: 1, L0663: 1, L0748: 1, L0750: 1, L0779: 1, L0731: 1, L0759: 1, H0445: 1 and			

1513	HMWDU20	695743	1523	92 - 193	4120		H0542: 1. H0580: 3, H0551: 2, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0125: 1, H0431: 1, H0438: 1, H0586: 1, H0069: 1, H0635: 1, H0052: 1, H0050: 1, H0375: 1, H0553: 1, H0090: 1, H0616: 1, H0623: 1, S0038: 1, S0126: 1, L0748: 1, L0777: 1 and H0542: 1.		
1514	HMWDX57	610104	1524	127 - 153	4121		S0360: 2, H0657: 1, H0341: 1, H0497: 1, H0039: 1, H0087: 1, H0647: 1, L0768: 1, L0774: 1, L0741: 1, L0748: 1, L0777: 1 and L0755: 1.	1p33-p32	120260, 120950, 120960, 138140, 178300, 187040, 246450, 600101, 600650, 600650, 600722, 600722
1515	HMWDZ63	608146	1525	129 - 239	4122	Gly-17 to Trp-24.	H0341: 1	Xq28	300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700, 303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400
1516	HMWEA77	839221	1526	213 - 302	4123		H0341: 1		
1517	HMWEC03	598902	1527	190 - 276	4124	Asp-21 to Glu-28.	AR089: 80, AR194: 65,	10	

						AR205: 63, AR202: 61, AR246: 58, AR316: 57, AR060: 57, AR206: 55, AR039: 46, AR198: 38, AR244: 36, AR192: 32, AR243: 31, AR204: 31, AR241: 31, AR271: 23, AR053: 22, AR310: 21, AR265: 21, AR309: 20, AR312: 19, AR274: 19, AR052: 18, AR275: 18, AR213: 18, AR263: 16, AR273: 16, AR104: 16, AR295: 16, AR266: 13, AR240: 13, AR282: 13, AR251: 13, AR186: 12, AR298: 12, AR291: 12, AR289: 11, AR292: 11, AR284: 11, AR285: 11, AR277: 10, AR313: 10, AR296: 10, AR248: 10, AR033: 10, AR185: 10, AR286: 9, AR096: 9, AR270: 9, AR177: 9, AR232: 9, AR299: 8, AR175: 8, AR253: 8, AR294: 8, AR290: 7, AR247: 7, AR238: 7, AR268: 7, AR182: 7, AR269: 7, AR183: 7, AR227: 7, AR055: 7, AR061: 7, AR258: 6, AR293: 6, AR249: 6, AR259: 6, AR218: 6, AR256: 6, AR219: 6, AR231: 6, AR184: 6, AR234: 6, AR300: 5, AR267: 5, AR226: 5, AR229: 5, AR233: 5, AR237: 5, AR283: 5,
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									AR179: 3 L0766: 5, L0752: 5, L0769: 3, L0439: 3, L0749: 3, L0756: 3, H0013: 2, L0646: 2, L0655: 2, L0748: 2, L0777: 2, L0758: 2, H0650: 1, H0341: 1, S0418: 1, H0244: 1, L0021: 1, H0590: 1, H0083: 1, H0039: 1, H0111: 1, H0412: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, H0529: 1, L0800: 1, L0794: 1, L0804: 1, L0659: 1, L0663: 1, L0438: 1, H0435: 1, S0152: 1, H0521: 1, H0522: 1, S3014: 1, L0362: 1, H0542: 1, H0543: 1 and S0424: 1.				
1518	HMWEF46	825433	1528	71 - 256	4125				H0341: 2, L0529: 1 and L0792: 1.				
1519	HMWEK43	847414	1529	126 - 221	4126				H0341: 1 and L0750: 1.				
1520	HMWEM23	863105	1530	152 - 1165	4127	Ser-28 to Thr-35, Pro-67 to Arg-74, Thr-106 to Glu-115, Cys-128 to Asp-133, Arg-154 to Lys-162, Glu-164 to Cys-179, Ala-216 to Ala-225, Pro-248 to Pro-255, Thr-261 to Thr-273, Leu-307 to Arg-316, Gln-323 to Arg-328.	AR089: 13, AR060: 11, AR316: 11 L0803: 8, L0766: 7, S0408: 4, L0773: 3, L0804: 3, L0805: 3, H0615: 2, L0774: 2, L0745: 2, L0779: 2, L0758: 2, S0114: 1, H0341: 1, H0662: 1, S0418: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, S0051: 1, H0038: 1, S0440: 1, L0800: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L0794: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1, S0380: 1, S0152: 1, H0696: 1, L0612: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1.						
1521	HMWEM23	859387	1531	135 - 188	4128				AR089: 13, AR060: 11, AR316: 11 L0803: 8, L0766: 7, S0408: 4, L0773: 3, L0804: 3, L0805:				



1522	HMWER46	841527	1532	726 - 890	4129	Glu-48 to Thr-54.	<p>3, H0615: 2, L0774: 2, L0745: 2, L0779: 2, L0758: 2, S0114: 1, H0341: 1, H0662: 1, S0418: 1, S0222: 1, H0486: 1, H0013: 1, H0581: 1, S0051: 1, H0038: 1, S0440: 1, L0800: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L0794: 1, L0806: 1, L0526: 1, L0789: 1, L0790: 1, L0792: 1, L4501: 1, L0663: 1, H0519: 1, S0380: 1, S0152: 1, H0696: 1, L0612: 1, L0756: 1, L0780: 1, L0752: 1 and H0543: 1.</p> <p>AR089: 16, AR316: 15, AR060: 14</p> <p>L0748: 3, L0766: 2, L0809: 2, H0672: 2, S0206: 2, H0341: 1, H0661: 1, H0333: 1, H0051: 1, L0800: 1, L0747: 1, L0750: 1, L0755: 1, L0757: 1 and S0196: 1.</p>		
1523	HMWEU96	1310888	1533	224 - 310	4130		<p>AR089: 18, AR316: 13, AR060: 9</p> <p>L0766: 7, H0013: 6, L0471: 6, L0770: 5, L0439: 5, L0754: 5, H0521: 4, L0748: 4, L0777: 4, S0242: 4, H0171: 3, H0427: 3, L0794: 3, L0803: 3, L0532: 3, L0666: 3, L0665: 3, S0378: 3, H0555: 3, L0750: 3, L0752: 3, L0757: 3, H0170: 2, S0134: 2, H0656: 2, H0031: 2, H0551: 2, S0450: 2, L0662: 2, H0144: 2, S0266: 2, L0751: 2, L0759: 2, L0605: 2, L0592: 2, H0624: 1, S0256: 1, H0341: 1, S0001: 1, S0282: 1, H0661: 1, L0005: 1, S0356: 1, S0376: 1, S6026: 1, H0411: 1, H0586: 1, H0497: 1, H0574: 1, H0632: 1, H0486: 1,</p> <p>300300, 300300, 301201, 301835, 309300, 309605, 311850, 314200</p>		

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1524	HMWEX02	596821	1534	48 - 614	4131	601698	2606	86 - 1222	5203	Thr-28 to Met-38, Glu-40 to Asp-51, Ser-53 to Lys-71, Ala-98 to Arg-103, Gln-106 to Asp-115, Ala-194 to Lys-201, Gly-255 to Lys-260, Asn-294 to Lys-299, Lys-317 to Gln-327.	AR089: 381, AR316: 298, AR060: 224 H0181: 2, H0617: 2, L0794: 2, H0593: 2, L0601: 2, H0341: 1, S0420: 1, H0559: 1, L0021: 1, H0188: 1, H0494: 1, L0776: 1, L0664: 1, H0547: 1, S0260: 1 and H0423: 1.			
1525	HMWFB65	638102	1535	29 - 79	4132						AR089: 14, AR060: 12, AR316: 10, AR186: 9, AR053: 7, AR055: 7, AR204: 7, AR206: 6, AR052: 6, AR273: 6, AR248: 6, AR313: 6,			

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1526	HMWFD77	610105	1536	17 - 121	4133			1, H0666: 1 and S0328: 1. H0341: 1			
1527	HMWFO25	566855	1537	185 - 223	4134			AR060: 6, AR316: 4, AR089: 3 H0341: 1	8q24		131950, 153840, 600669, 601282, 601455, 602232
1528	HMWFO89	846650	1538	209 - 400	4135		Gly-21 to Gly-26, Ser-28 to Ser-33.	AR089: 23, AR316: 20, AR060: 18 H0585: 13, L0439: 12, L0740: 11, H0046: 10, H0617: 10, L0766: 10, L0747: 9, H0556: 8, H0052: 7, S0222: 6, H0144: 6, L0750: 6, L0731: 6, L0758: 6, S0049: 5, H0620: 5, H0494: 5, L0775: 5, L0438: 5, L0741: 5, H0657: 4, S0278: 4, H0618: 4, L0163: 4, H0135: 4, S0144: 4, S0002: 4, L0770: 4, L0783: 4, L0742: 4, L0743: 4, L0748: 4, L0759: 4, H0141: 3, H0599: 3, S0010: 3, H0050: 3, S0051: 3, S0628: 3, H0266: 3, H0124: 3, H0551: 3, H0529: 3, L0804: 3, L0663: 3, S0330: 3, L0751: 3, L0754: 3, L0752: 3, H0656: 2, H0333: 2, H0486: 2, H0042: 2, H0457: 2, H0041: 2, H0012: 2, T0010: 2, S0003: 2, T0006: 2, S0364: 2, S0366: 2, L0794: 2, L0809: 2, L0789: 2, S0374: 2, H0519: 2, H0660: 2, L0777: 2, L0753: 2, L0757: 2, L0588: 2, L0605: 2, L0485: 2, L0599: 2, L0601: 2, H0265: 1, H0584: 1, S0040: 1, H0650: 1, H0341: 1, S0212: 1, S0282: 1, H0484: 1, H0483: 1, H0663: 1, H0638: 1, S0418: 1, S0420: 1, S0360: 1, S0408: 1, H0637: 1, L0149: 1, H0208: 1, S0045: 1, S0132: 1, H0370: 1, L0623: 1.			

1529	HMWGM41	847415	1539	33 - 989	4136	Gly-53 to Gly-58, Phe-298 to Phe-303.	H0013: 1, H0427: 1, S0280: 1, H0156: 1, H0097: 1, H0575: 1, H0036: 1, H0590: 1, H0253: 1, S0346: 1, H0318: 1, H0581: 1, H0196: 1, H0234: 1, H0596: 1, H0597: 1, H0231: 1, H0009: 1, N0006: 1, H0123: 1, L0471: 1, H0024: 1, H0014: 1, H0373: 1, H0051: 1, S0388: 1, H0083: 1, H0594: 1, H0292: 1, H0428: 1, H0604: 1, H0553: 1, H0628: 1, H0181: 1, H0606: 1, H0673: 1, H0169: 1, H0674: 1, H0163: 1, H0090: 1, T0067: 1, H0264: 1, H0412: 1, S0038: 1, S0386: 1, S0112: 1, L0564: 1, H0561: 1, S0142: 1, S0344: 1, L0769: 1, L0637: 1, L0761: 1, L0372: 1, L0374: 1, L0764: 1, L0648: 1, L0521: 1, L0626: 1, L0533: 1, L0803: 1, L0774: 1, L0376: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0529: 1, L0791: 1, L0666: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0648: 1, S0380: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, L0609: 1, S3012: 1, L0744: 1, L0745: 1, L0749: 1, L0755: 1, H0444: 1, L0480: 1, L0584: 1, L0595: 1, L0361: 1, S0011: 1, H0423: 1, H0422: 1, H0008: 1 and H0352: 1.	4	
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1530	HMWGO95	582078	1540	175 - 285	4137	Leu-3 to Ser-10.	H0341: 1				
1531	HMWGV85	847416	1541	41 - 370	4138	Ala-83 to Ser-105.	AR284: 34, AR226: 31, AR177: 30, AR175: 28, AR258: 27, AR232: 26, AR060: 25, AR296: 25, AR182: 25, AR270: 25, AR268: 24, AR053: 24, AR238: 24, AR290: 24, AR263: 22, AR183: 22, AR039: 21, AR240: 21, AR185: 20, AR269: 20, AR244: 19, AR198: 19, AR227: 19, AR192: 19, AR237: 18, AR202: 18, AR266: 18, AR286: 18, AR213: 17, AR052: 17, AR104: 17, AR265: 17, AR295: 17, AR194: 16, AR186: 16, AR292: 16, AR206: 16, AR246: 16, AR291: 15, AR241: 15, AR274: 15, AR033: 15, AR282: 15, AR316: 15, AR061: 15, AR298: 15, AR310: 15, AR247: 15, AR289: 14, AR205: 14, AR285: 14, AR299: 14, AR300: 14, AR243: 14, AR204: 14, AR089: 14, AR184: 14, AR233: 14, AR293: 13, AR259: 13,				

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1532	HMWZ42	824259	1542	224 - 322	4139				H0341: 2 and L0749: 1.						
1533	HMWHR36	604846	1543	164 - 385	4140	Lys-50 to Tyr-57.			H0341: 1						



1534	HMWM55	604845	1544	53 - 157	4141		H0341: 1		
1535	HMWIQ26	722234	1545	135 - 344	4142		AR089: 139, AR184: 122, AR229: 111, AR296: 111, AR060: 107, AR259: 106, AR293: 105, AR316: 96, AR227: 94, AR294: 89, AR266: 88, AR234: 88, AR237: 88, AR233: 87, AR251: 83, AR298: 81, AR182: 80, AR256: 80, AR292: 77, AR258: 75, AR286: 72, AR289: 61, AR232: 59, AR231: 57, AR249: 55, AR290: 51, AR175: 51, AR177: 50, AR291: 49, AR179: 49, AR267: 48, AR269: 47, AR238: 46, AR226: 45, AR284: 45, AR285: 45, AR183: 45, AR061: 42, AR033: 38, AR185: 38, AR219: 37, AR295: 35, AR270: 34, AR218: 34, AR248: 30, AR313: 28, AR268: 28, AR253: 27, AR263: 23, AR265: 21, AR300: 21, AR282: 20, AR310: 18, AR096: 18, AR247: 17, AR240: 16, AR299: 16, AR186: 13, AR283: 9, AR312: 8, AR309: 8, AR277: 7, AR053: 5, AR055: 5, AR052: 5, AR213: 4, AR202: 3, AR104: 3, AR039: 3, AR204: 3, AR243: 2, AR198: 2 L0665: 6, L0794: 4, L0766: 4, L0659: 4, L0809: 4, L0731: 4, L0761: 3, L0662: 3, L0803:		

1536	HMWTU49	800894	1546	989 - 1285	4143	Lys-22 to Ser-35, Gln-42 to Gln-51, Leu-65 to Thr-72, Ser-77 to Trp-86.	3, S0404: 3, L0439: 3, S0222: 2, H0486: 2, H0457: 2, H0038: 2, L0666: 2, H0520: 2, H0519: 2, H0521: 2, L0743: 2, L0748: 2, L0749: 2, L0758: 2, L0759: 2, L0588: 2, L0605: 2, L0592: 2, S0276: 2, S0218: 1, H0650: 1, S0116: 1, H0341: 1, H0663: 1, H0662: 1, S0442: 1, S0408: 1, H0351: 1, H0592: 1, L0623: 1, H0013: 1, L0021: 1, H0014: 1, H0553: 1, H0644: 1, H0551: 1, H0412: 1, H0100: 1, L0475: 1, H0130: 1, L0640: 1, L0763: 1, L0769: 1, L0638: 1, L0637: 1, L0554: 1, L0806: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0787: 1, L0789: 1, L0792: 1, L0663: 1, L0438: 1, H0593: 1, H0682: 1, H0659: 1, H0670: 1, H0672: 1, L0744: 1, L0750: 1, L0777: 1, H0445: 1, S0434: 1, L0366: 1 and H0543: 1.	Xq25-q26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850
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1537	HMWJJ62	838612	1547	115 - 231	4144			S0372: 2, H0341: 1, S0029: 1, H0402: 1, S0356: 1, S0010: 1, S0051: 1, H0561: 1, L0804: 1, S0044: 1, L0752: 1, L0596: 1, L0588: 1, L0366: 1, S0194: 1 and H0543: 1.		
1538	HMWJJ64	581071	1548	187 - 327	4145	Met-1 to Asp-6.		L0766: 4, L0749: 4, L0755: 4, L0666: 3, L0777: 3, L0731: 3, H0624: 2, H0156: 2, H0674: 2, S0150: 2, L0805: 2, L0776: 2, L0809: 2, H0660: 2, H0436: 2, L0748: 2, L0747: 2, L0750: 2, L0752: 2, L0759: 2, L0595: 2, L0362: 2, S0194: 2, H0543: 2, H0170: 1, H0657: 1, H0656: 1, H0341: 1, S0420: 1, S0360: 1, S0410: 1, S0222: 1, H0370: 1, H0599: 1, H0705: 1, H0318: 1, H0581: 1, L0471: 1, H0012: 1, H0510: 1, H0604: 1, H0031: 1, H0135: 1, H0412: 1, H0059: 1, H0102: 1, H0100: 1, H0494: 1, L0065: 1, H0646: 1, L0770: 1, L0764: 1, L0662: 1, L0794: 1, L0650: 1, L0775: 1, L0517: 1, L0663: 1, L0664: 1, L0665: 1, S0126: 1, H0658: 1, H0539: 1, H0521: 1, H0696: 1, L0439: 1, L0740: 1, L0779: 1, L0780: 1, H0445: 1, L0588: 1, L0590: 1, L0604: 1, H0506: 1 and H0352: 1.		
1539	HNAAD76	596801	1549	116 - 232	4146			H0379: 1 and S0144: 1.		
1540	HNAAE24	566448	1550	107 - 178	4147			H0379: 1		
1541	HNALD94	844722	1551	88 - 741	4148	Arg-84 to Cys-90, Gln-138 to Leu-155.		AR089: 5, AR316: 4, AR060: 3 L0665: 4, H0352: 4, L0768: 3, L0666: 3, L0774: 2, L0663: 2, L0751: 2, L0777: 2, S6024: 1, S0376: 1, H0635: 1, S0050: 1.		

1542	HNALE44	785045	1552	179 - 286	4149	Ala-28 to Arg-35.	1, H0380: 1, L0351: 1, L0764: 1, L0662: 1, L0803: 1, L0659: 1, L0783: 1, S0126: 1, H0648: 1, S0028: 1, L0748: 1, L0745: 1, L0731: 1, L0758: 1, L0759: 1, S0260: 1, L0589: 1 and L0592: 1. AR089: 14, AR316: 7 H0599: 50, S0364: 8, L0747: 6, L0604: 6, L0622: 5, S0366: 5, L0759: 5, S0362: 4, L0809: 4, L0485: 4, L0750: 3, H0411: 2, T0040: 2, N0009: 2, H0002: 2, H0097: 2, S0010: 2, H0597: 2, H0373: 2, H0087: 2, H0646: 2, L0771: 2, H0547: 2, S0380: 2, S0027: 2, L0749: 2, S0418: 1, S0420: 1, H0550: 1, L0623: 1, H0013: 1, L0471: 1, L0163: 1, H0188: 1, H0424: 1, H0628: 1, H0032: 1, H0551: 1, H0380: 1, H0269: 1, H0412: 1, H0413: 1, H0623: 1, H0100: 1, L0638: 1, L0764: 1, L0804: 1, L0375: 1, L0805: 1, L0663: 1, H0144: 1, H0684: 1, S0330: 1, H0627: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0777: 1, L0780: 1, L0755: 1, L0757: 1, L0758: 1, L0366: 1 and H0506: 1. L0748: 7, L0776: 4, L0766: 3, S0360: 2, L0805: 2, L0749: 2, L0756: 2, H0421: 1, H0510: 1, H0591: 1, H0625: 1, H0649: 1, H0538: 1, H0517: 1, L0769: 1, L0803: 1, L0775: 1, L0784: 1, L0655: 1, L0664: 1, H0648: 1, S0330: 1, H0539: 1, S0380: 1, H0579: 1, L0744: 1, L0747: 1, L0752: 1, L0731: 1, L0758: 1	7q32-q35	118425, 118425, 118425, 152427, 180105, 190900, 222800, 246900, 276000, 276000, 600510
1543	HNDAC35	847417	1553	78 - 200	4150		L0748: 7, L0776: 4, L0766: 3, S0360: 2, L0805: 2, L0749: 2, L0756: 2, H0421: 1, H0510: 1, H0591: 1, H0625: 1, H0649: 1, H0538: 1, H0517: 1, L0769: 1, L0803: 1, L0775: 1, L0784: 1, L0655: 1, L0664: 1, H0648: 1, S0330: 1, H0539: 1, S0380: 1, H0579: 1, L0744: 1, L0747: 1, L0752: 1, L0731: 1, L0758: 1	12	

1544	HNEAA04	604918	1554	112 - 219	4151			1 and L0599: 1.		
1545	HNEAH26	862041	1555	206 - 310	4152			S0052: 2 and H0179: 1. S0001: 1, H0179: 1 and S0026: 1.		
1546	HNEAK38	631279	1556	247 - 381	4153		Thr-39 to Thr-44.	AR089: 25, AR316: 20, AR060: 15 S0052: 2, S0053: 2 and H0179: 1.		
1547	HNEAK65	604991	1557	66 - 161	4154			H0650: 1, H0656: 1, S0140: 1, H0179: 1, H0553: 1, H0634: 1, H0063: 1, H0647: 1, L0662: 1, L0766: 1, L0515: 1, L0659: 1, S0052: 1, S0428: 1 and H0539: 1.		
1548	HNEBX72	833092	1558	47 - 187	4155			H0179: 2, S0049: 1 and H0521: 1.		
1549	HNEBY79	841769	1559	186 - 257	4156			AR089: 15, AR316: 11, AR060: 8 H0179: 1 and T0041: 1.		
1550	HNECD52	609945	1560	262 - 402	4157		Ser-19 to Lys-24.	H0123: 1 and H0179: 1.		
1551	HNECL75	782493	1561	1120 - 1266	4158			L0766: 11, L0754: 10, H0457: 7, L0438: 6, H0179: 5, L0744: 4, S0356: 3, H0599: 3, H0591: 3, L0666: 3, H0542: 3, H0497: 2, H0013: 2, H0575: 2, H0050: 2, H0553: 2, L0794: 2, L0659: 2, L0664: 2, H0518: 2, H0436: 2, L0748: 2, L0759: 2, L0599: 2, H0171: 1, H0583: 1, L0785: 1, S0116: 1, H0662: 1, H0638: 1, S0418: 1, S0358: 1, S0026: 1, H0635: 1, H0590: 1, H0318: 1, H0581: 1, H0421: 1, H0439: 1, H0271: 1, H0623: 1, T0041: 1, S0422: 1, L0598: 1, H0529: 1, L0641: 1, L0803: 1, L0776: 1, L0790: 1, L0792: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0659: 1, H0658: 1.	2p13.3	203800, 253601, 253601

1552	HNECX90	834776	1562	71 - 184	4159		H0666: 1, S0328: 1, H0522: 1, S0406: 1, L0749: 1, L0777: 1, L0752: 1, L0758: 1, S0026: 1, H0543: 1, H0423: 1, H0422: 1 and H0506: 1. L0748: 6, L0439: 6, H0486: 4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1. L0748: 6, L0439: 6, H0486: 4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1.	1p35.3-p34.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 185470, 230350, 255800, 602771
1553	HNECX90	881133	1563	71 - 184	4160		L0748: 6, L0439: 6, H0486: 4, H0560: 4, L0438: 4, H0556: 3, S0116: 3, H0416: 3, H0135: 3, H0710: 3, H0445: 3, H0265: 2, H0140: 2, H0635: 2, H0457: 2, H0083: 2, H0090: 2, H0063: 2, H0641: 2, L0770: 2, L0769: 2, L0775: 2, L0776: 2, L0655: 2, L0789: 2, H0521: 2, H0555: 2, L0747: 2, L0756: 2, L0752: 2, L0592: 2, H0136: 2, H0423: 2, H0422: 2, H0159: 1, H0716: 1, S0114: 1, S0218: 1, H0583: 1, H0657: 1, H0341: 1, S0001: 1, H0255: 1, H0638: 1, S0376: 1, S0360: 1, H0637: 1, H0411: 1, S0278: 1, S0222: 1, H0632: 1, L0622: 1, H0108: 1, T0082: 1, H0618: 1, H0318: 1, H0581: 1, H0563: 1, H0023: 1, S0388: 1, H0510: 1, H0179: 1, H0271: 1, H0188: 1, H0622: 1, H0553: 1, H0617: 1, H0606: 1, H0040: 1, H0087: 1, H0551: 1, H0264: 1, H0272: 1, H0488: 1, T0041: 1, H0561: 1, S0344: 1, L0638: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0766: 1, L0774: 1, L0805: 1, L0658: 1, L0518: 1, L0666: 1, S0052: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, S0378: 1, H0214: 1, H0576: 1, H0478: 1, L0777: 1, L0758: 1, H0542: 1 and H0543: 1.	1p35.3-p34.1	118210, 120550,

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1554	HNEDA05	834777	1564	649 - 828	4161	Pro-27 to Ser-37, Gln-40 to Pro-49.	AR060: 3, AR316: 2, AR089: 2 L0749: 2, H0179: 1, H0271: 1, H0444: 1 and H0445: 1.						
1555	HNEDP75	581072	1565	211 - 285	4162	Glu-13 to Asp-18.	H0179: 1						
1556	HNEDQ02	846061	1566	280 - 450	4163	Arg-36 to Ala-43.	L0764: 5, L0759: 4, H0529: 3, L0803: 3, L0809: 3, L0666:	11cen-q12.1					

									3, H0255: 2, H0318: 2, H0266: 2, H0617: 2, H0090: 2, S0142: 2, L0770: 2, L0769: 2, L0771: 2, L0499: 2, L0514: 2, H0690: 2, H0659: 2, H0521: 2, L0777: 2, L0604: 2, L0785: 1, H0483: 1, H0241: 1, S0420: 1, S0376: 1, S0360: 1, H0580: 1, S0045: 1, H0431: 1, H0497: 1, H0486: 1, H0069: 1, H0036: 1, H0618: 1, H0253: 1, H0581: 1, H0052: 1, H0439: 1, H0050: 1, H0375: 1, H0179: 1, H0039: 1, H0553: 1, H0628: 1, H0673: 1, H0477: 1, S0450: 1, S0144: 1, S0344: 1, S0210: 1, L0372: 1, L0800: 1, L0804: 1, L0775: 1, L0805: 1, L0509: 1, L0664: 1, H0522: 1, S0027: 1, S0028: 1, L0779: 1, L0752: 1, L0758: 1, H0445: 1 and H0542: 1.					
1557	HNEDU46	695745	1567	794 - 952	4164	Arg-47 to Lys-52.			L0805: 6, H0181: 3, L0803: 3, S0360: 2, H0179: 2, L0651: 2, H0521: 2, H0556: 1, S0418: 1, S0222: 1, H0611: 1, H0318: 1, S0474: 1, H0046: 1, L0157: 1, H0564: 1, H0012: 1, S0051: 1, H0328: 1, H0604: 1, H0553: 1, H0182: 1, H0617: 1, S0036: 1, H0090: 1, H0494: 1, L0763: 1, L0770: 1, L0646: 1, L0800: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0659: 1, L0788: 1, L0664: 1, H0593: 1, H0670: 1, H0539: 1, L0741: 1, L0748: 1, L0439: 1, L0747: 1, L0777: 1, L0780: 1, S0031: 1 and L0592: 1.					
1558	HNFDU50	839369	1568	227 - 1657	4165				AR089: 9, AR316: 7, AR060: 5	3p22		116806, 168468, 182280, 190182,		



1559	HNFAD50	843242	1569	112 - 138	4166					H0271: 13, H0556: 6, H0436: 4, L0755: 4, S0356: 3, H0575: 3, H0416: 3, H0265: 2, H0713: 2, H0411: 2, H0635: 2, L0021: 2, H0179: 2, L0766: 2, L0659: 2, L0666: 2, H0547: 2, L0748: 2, L0749: 2, L0596: 2, L0588: 2, H0717: 1, H0650: 1, H0656: 1, H0483: 1, S0418: 1, S0420: 1, S0444: 1, H0637: 1, S0046: 1, L0717: 1, S6022: 1, S0220: 1, H0485: 1, H0069: 1, H0618: 1, H0581: 1, H0544: 1, H0546: 1, H0620: 1, H0023: 1, H0510: 1, H0213: 1, H0628: 1, H0032: 1, H0634: 1, H0264: 1, H0280: 1, H0429: 1, H0641: 1, H0538: 1, L0640: 1, L0761: 1, L0643: 1, L0768: 1, L0653: 1, L0519: 1, L0545: 1, L0789: 1, L0792: 1, L4501: 1, L0665: 1, S0053: 1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1.		190182, 227646, 261510, 600163, 601154
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1560	HNFAG67	804546	1570	32 - 40	4167				1, L0717: 1, S0220: 1, H0485: 1, H0069: 1, H0618: 1, H0581: 1, H0544: 1, H0546: 1, H0620: 1, H0023: 1, H0510: 1, H0213: 1, H0628: 1, H0032: 1, H0634: 1, H0264: 1, H0280: 1, H0429: 1, H0641: 1, H0538: 1, L0640: 1, L0761: 1, L0643: 1, L0768: 1, L0653: 1, L0519: 1, L0545: 1, L0789: 1, L0792: 1, L4501: 1, L0665: 1, S0053: 1, L0352: 1, H0593: 1, H0670: 1, H0648: 1, H0521: 1, H0478: 1, L0743: 1, L0439: 1, L0747: 1, L0779: 1, L0780: 1, L0757: 1, L0758: 1, S0434: 1, S0436: 1, L0603: 1, H0543: 1 and H0423: 1.	2q11.2	129490
1561	HNFJ77	886185	1571	332 - 385	4168				H0581: 4, L0766: 4, H0542: 4, L0803: 3, L0655: 3, L0662: 2, L0804: 2, L0659: 2, H0521: 2, L0779: 2, L0777: 2, H0657: 1, H0638: 1, H0125: 1, H0608: 1, H0485: 1, H0486: 1, L0021: 1, H0036: 1, H0009: 1, H0271: 1, H0090: 1, H0038: 1, H0641: 1, L0761: 1, L0645: 1, L0767: 1, L0775: 1, L0806: 1, L0607: 1, L0657: 1, S0428: 1, H0660: 1, L0756: 1, L0731: 1, H0543: 1 and H0422: 1.		
1562	HNFJ77	886185	1571	332 - 385	4168				H0271: 2, H0402: 1 and H0328: 1.		
1562	HNFJ77	886185	1571	332 - 385	4168				AR089: 36, AR316: 22, AR060: 10 H0670: 22, S0360: 16, H0486: 13, H0696: 8, H0014: 6, L0657: 5, S0374: 5, L0777: 5, H0263: 4, L0659: 4, L0809: 4, S0434: 4, H0662: 3, S0356: 4.		

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1563	HNFCY57	877653	1573	317 - 2206	4170	Leu-15 to Leu-25, Arg-47 to His-53, Glu-130 to Asn-138, Pro-140 to Ser-148, Asn-157 to Lys-163, Asn-178 to Lys-187, Pro-281 to Arg-292, Leu-341 to Leu-346, Lys-471 to Cys-477, Arg-513 to Gly-521, Gly-570 to Gly-575, Leu-614 to Glu-620.	H0271: 3, H0575: 2, H0416: 2, H0518: 2, L0748: 2, S0622: 1, L0021: 1, H0024: 1, H0179: 1, S0002: 1, L0794: 1, S0053: 1 and S0216: 1.	1q43-q44	106150, 106150, 156570, 600996, 601975, 602759
1564	HNFDL89	823362	1574	231 - 335	4171		H0271: 2, H0265: 1, H0179: 1 and H0343: 1.		
1565	HNFDL73	566858	1575	72 - 122	4172		H0271: 2, H0318: 1, H0673: 1, L0186: 1, H0555: 1 and L0779: 1.		
1566	HNFDU92	602933	1576	30 - 38	4173		H0271: 1		
1567	HNFDY09	843300	1577	311 - 358	4174		S0428: 4, H0009: 2, S0442: 1, H0581: 1, H0271: 1, S0052: 1, H0445: 1, H0543: 1 and L0697: 1.		
1568	HNFDY31	724955	1578	473 - 655	4175		S0404: 11, L0439: 11, L0777: 11, S0358: 10, L0731: 10, S0360: 9, L0754: 9, L0758: 9, S0422: 7, H0581: 6, H0436: 6, L0748: 6, L0752: 6, L0596: 6, L0589: 6, H0013: 5, L0665: 5, H0144: 5, L0740: 5, H0543: 5, S0356: 4, S0444: 4, H0486: 4, L0666: 4, L0663: 4, S0374: 4, H0520: 4, H0710: 4, L0750: 4, H0411: 3, H0415: 3, S0003: 3, H0428: 3, H0553: 3, H0090: 3, H0059: 3, L0770: 3, L0766: 3, L0776: 3, L0655: 3, L0659: 3, L0809: 3, H0547: 3, H0658: 3, H0521: 3, L0755: 3, L0759: 3, S0436: 3, H0423: 3,	Xp11.3-p11.23	300047, 300062, 300071, 300110, 300600, 301000, 301000, 301830, 304020, 309470, 309500, 309610, 309850, 310500, 311050, 312060, 312600

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1569	HNFEA17	753242	1579	9 - 152.	4176	Thr-23 to Arg-31, Arg-36 to Ser-45.	AR241: 65, AR313: 56, AR198: 43, AR275: 37, AR039: 34, AR192: 29, AR204: 28, AR089: 28, AR052: 28, AR271: 27, AR053: 26, AR265: 26, AR258: 24, AR218: 24, AR312: 24, AR185: 24, AR240: 23, AR229: 23, AR096: 22, AR299: 22, AR243: 22, AR293: 21, AR300: 21, AR104: 20, AR219: 20, AR277: 19, AR316: 18, AR274: 18, AR213: 18, AR177: 18, AR310: 18, AR309: 17, AR186: 17, AR292: 16, AR194: 16, AR247: 16, AR233: 16, AR249: 15, AR244: 15, AR248: 15, AR273: 15, AR183: 14, AR205: 14, AR238: 14, AR060: 14, AR259: 13, AR280: 13, AR175: 12, AR282: 12, AR033: 12, AR315: 12, AR184: 12, AR294: 12, AR206: 12, AR202: 11, AR246: 11, AR263: 11, AR234: 10, AR295: 10, AR256: 9, AR226: 9, AR267: 9, AR281: 9, AR227: 8, AR237: 8, AR231: 8, AR283: 8, AR179: 8, AR182: 8, AR268: 8, AR055: 7, AR253: 7, AR314: 7, AR285: 6, AR251: 6, AR286: 6, AR061: 5, AR298: 5, AR270: 4, AR269: 4,		
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1570	HNFE55	722236	1580	219 - 302	4177	Ser-3 to Thr-8, Ala-19 to Ala-25.	AR254: 630, AR259: 562, AR256: 494, AR248: 462, AR252: 453, AR294: 450, AR310: 422, AR281: 414, AR280: 402, AR253: 386, AR293: 378, AR052: 377, AR292: 359, AR265: 349, AR315: 346, AR283: 345, AR258: 323, AR289: 318, AR204: 309, AR249: 304, AR286: 300, AR053: 292, AR296: 289, AR218: 286, AR297: 277, AR242: 276, AR195: 272, AR275: 263, AR243: 263, AR314: 262, AR198: 249, AR246: 241, AR039: 240, AR287: 238, AR219: 238, AR177: 230, AR207: 227, AR194: 227, AR257: 226, AR244: 224, AR255: 219, AR096: 216, AR271: 212, AR213: 209, AR203: 208, AR241: 208, AR309: 205, AR273: 205, AR261: 205, AR230: 204, AR312: 204, AR202: 199, AR104: 194, AR272: 193, AR192: 191, AR033: 191,	11	





									AR251: 56, AR277: 53, AR168: 53, AR238: 52, AR264: 52, AR224: 43, AR173: 42, AR223: 41, AR216: 41, AR221: 40, AR210: 38, AR211: 30, AR222: 24, AR215: 14, AR214: 11 H0271: 17, H0179: 4, H0546: 2, H0457: 2, H0086: 2, L0667: 2, S0376: 1, H0580: 1, H0575: 1, H0618: 1, S0049: 1, H0024: 1, H0553: 1, H0087: 1, H0059: 1, H0625: 1, L0638: 1, L0796: 1, L0773: 1, L0662: 1, L0768: 1, L0775: 1, L0783: 1, L0666: 1, L0665: 1, S0216: 1, S0378: 1, L0777: 1, L0592: 1, H0542: 1 and S0041: 1.					
1571	HNFT12	824170	1581	281 - 436	4178	Ser-25 to Lys-32, Pro-42 to Phe-48.	AR089: 11, AR316: 8, AR060: 6 H0271: 1 and S0428: 1.							
1572	HNFFR59	634649	1582	162 - 254	4179		AR060: 6, AR316: 6, AR089: 6 H0271: 1							
1573	HNFGC51	862044	1583	217 - 246	4180		H0266: 3, H0264: 3, H0457: 2, H0031: 2, H0423: 2, S0114: 1, H0341: 1, H0662: 1, H0580: 1, N0009: 1, H0599: 1, H0036: 1, H0581: 1, H0052: 1, H0086: 1, H0271: 1, S0036: 1, H0135: 1, H0059: 1, T0041: 1, S0306: 1, S0144: 1, S0002: 1, H0701: 1, H0520: 1, H0521: 1, L0439: 1, H0445: 1 and H0543: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040					
1574	HNFGR15	844044	1584	292 - 387	4181		H0271: 1 and H0423: 1.							
1575	HNFGW37	692528	1585	219 - 425	4182		AR060: 5, AR316: 4, AR089: 2 H0179: 1, H0271: 1, L0769:							

1576	HNFHW53	589525	1586	12 - 239	4183	Pro-57 to Val-63, Lys-69 to Phe-74.	1 and L0761: 1. H0556: 3, H0673: 3, S0053: 3, H0618: 2, H0083: 2, H0179: 2, H0674: 2, S0216: 2, T0002: 1, S0134: 1, S0116: 1, H0550: 1, H0409: 1, H0069: 1, H0427: 1, H0271: 1, H0039: 1, H0090: 1, H0634: 1, H0059: 1, S0052: 1, S0428: 1, H0144: 1, S0152: 1, H0576: 1 and S0031: 1.		
1577	HNFHA34	567287	1587	246 - 371	4184		L0771: 3, L0021: 2, L0439: 2, L0779: 2, L0755: 2, S0114: 1, H0650: 1, H0661: 1, H0179: 1, H0271: 1, S0003: 1, H0059: 1, H0647: 1, L0800: 1, L0794: 1, L0803: 1, L0652: 1, L0790: 1, L0791: 1, S0052: 1, S0428: 1, L0749: 1 and L0758: 1.	8q24.3	188450, 188450, 188450
1578	HNFHD58	664495	1588	119 - 157	4185		S0422: 15, H0124: 12, L0666: 11, L0663: 11, L0483: 10, L0439: 10, L0759: 10, L0664: 9, H0521: 9, L0665: 8, L0740: 8, L0751: 8, S0046: 7, S0126: 7, L0754: 7, S0408: 6, H0644: 6, H0412: 6, H0494: 6, S0438: 6, S0440: 6, L0659: 6, H0519: 6, S0152: 6, S3014: 6, L0731: 6, S0436: 6, S0444: 5, S0360: 5, S0410: 5, H0013: 5, H0251: 5, L0770: 5, L0766: 5, H0547: 5, H0672: 5, L0750: 5, L0362: 5, H0542: 5, S0376: 4, H0318: 4, H0046: 4, H0039: 4, H0553: 4, H0040: 4, H0551: 4, L0646: 4, L0662: 4, L0803: 4, L0774: 4, L0775: 4, L0653: 4, H0144: 4, L0438: 4, L0747: 4, L0779: 4, L0777: 4, L0758: 4, S0442: 3, S0222: 3, H0581: 3, H0052: 3, H0545: 3, H0266: 3.		

						H0622: 3, H0424: 3, H0628: 3, H0090: 3, H0561: 3, L0763: 3, L0771: 3, L0809: 3, L5623: 3, H0659: 3, H0648: 3, S0378: 3, H0436: 3, S0027: 3, L0744: 3, L0745: 3, L0752: 3, S0434: 3, L0608: 3, S0242: 3, H0423: 3, H0422: 3, H0506: 3, H0624: 2, H0556: 2, H0717: 2, S0134: 2, L0393: 2, H0661: 2, S0358: 2, H0580: 2, H0730: 2, S0476: 2, H0549: 2, H0587: 2, H0497: 2, H0632: 2, H0036: 2, H0421: 2, H0620: 2, S0250: 2, H0031: 2, H0032: 2, H0674: 2, H0591: 2, H0616: 2, H0623: 2, H0560: 2, S0208: 2, L0648: 2, L0776: 2, L0807: 2, L0657: 2, H0520: 2, H0435: 2, H0666: 2, S0328: 2, S0330: 2, H0539: 2, L0602: 2, L0748: 2, L0756: 2, L0755: 2, L0596: 2, L0594: 2, S0026: 2, H0667: 2, S0192: 2, S0196: 2, H0170: 1, H0171: 1, H0265: 1, S0040: 1, T0049: 1, H0583: 1, H0650: 1, H0656: 1, S0116: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, H0638: 1, S0420: 1, S0356: 1, S0354: 1, H0741: 1, H0722: 1, S0468: 1, S0007: 1, H0393: 1, L0717: 1, H0411: 1, S0278: 1, S6022: 1, H0431: 1, H0586: 1, H0642: 1, H0486: 1, T0114: 1, H0250: 1, H0427: 1, S0280: 1, H0575: 1, H0037: 1, S0049: 1, H0263: 1, H0596: 1, H0597: 1, H0327: 1, H0544: 1, H0546: 1, H0457: 1, H0123: 1, H0050: 1, L0471: 1, S0050: 1, H0014: 1, S0051: 1, H0510: 1,
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1579	HNFIH68	567445	1589	281 - 307	4186		H0375: 1, S6028: 1, H0179: 1, H0271: 1, H0286: 1, H0615: 1, H0428: 1, H0029: 1, H0119: 1, T0006: 1, L0142: 1, H0111: 1, L0055: 1, H0169: 1, H0212: 1, H0068: 1, H0598: 1, H0135: 1, H0038: 1, H0063: 1, T0067: 1, H0264: 1, H0488: 1, H0056: 1, H0059: 1, S0386: 1, L0564: 1, T0041: 1, H0509: 1, S0150: 1, H0130: 1, H0633: 1, H0649: 1, S0210: 1, H0529: 1, L0520: 1, L0769: 1, L0372: 1, L0641: 1, L0773: 1, L0626: 1, L0768: 1, L0649: 1, L0652: 1, L0654: 1, L0661: 1, L0656: 1, L0783: 1, L0382: 1, L0529: 1, L5622: 1, L0788: 1, L0793: 1, L0532: 1, S0006: 1, S0052: 1, H0697: 1, H0702: 1, H0725: 1, S0374: 1, H0689: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, S0380: 1, H0518: 1, H0522: 1, H0696: 1, S0044: 1, S0146: 1, S0392: 1, H0478: 1, S0312: 1, S0206: 1, L0753: 1, L0757: 1, H0444: 1, L0588: 1, L0591: 1, L0593: 1, S0194: 1, H0543: 1, S0384: 1 and H0721: 1.	
1580	HNFIH68	567445	1589	281 - 307	4186		S0002: 2 and H0271: 1.	
	HNFIH68	567445	1590	107 - 406	4187	Ser-40 to Arg-54, Met-67 to Arg-75, Glu-78 to Ala-83.	AR089: 8, AR316: 6, AR060: 4 H0645: 1, H0431: 1, T0082: 1, S0010: 1, S0346: 1, H0416: 1, H0288: 1 and H0494: 1.	
1581	HNFIH68	567445	1591	150 - 209	4188		H0416: 1	
1582	HNFIH68	567445	1592	168 - 230	4189		H0416: 1	
1583	HNFIH68	567445	1593	288 - 416	4190		H0486: 1, H0271: 1 and H0444: 1.	

1584	HNF1G16	610106	1594	110 - 208	4191	Glu-26 to His-31.	H0271: 2 and S0002: 1.		
1585	HNGAC71	695746	1595	168 - 227	4192		H0598: 1 and S0052: 1.		
1586	HNGAK42	602943	1596	15 - 95	4193	Ser-17 to Ser-23.	S0052: 1 and S0053: 1.		
1587	HNGAL25	835785	1597	9 - 116	4194		S0052: 1		
1588	HNGAT83	825393	1598	145 - 303	4195	His-38 to Asn-49.	S0052: 1		
1589	HNGAX06	841890	1599	145 - 261	4196	His-28 to Glu-33.	S0052: 3, S0358: 1, H0637: 1, H0580: 1, H0329: 1, H0619: 1, H0194: 1, L0471: 1, H0428: 1, H0124: 1, H0063: 1, H0264: 1, H0059: 1, S0053: 1 and H0555: 1.		
1590	HNGBB09	602954	1600	7 - 69	4197		AR184: 4, AR206: 3, AR243: 2, AR251: 2, AR312: 2, AR271: 2, AR096: 1, AR270: 1, AR213: 1, AR185: 1, AR289: 1, AR313: 1, AR282: 1, AR060: 1, AR291: 1, AR229: 1, AR267: 1, AR227: 1, AR186: 1 S0052: 1		
1591	HNGBC53	852239	1601	178 - 345	4198		S0052: 2		
1592	HNGBD94	704100	1602	22 - 117	4199		AR060: 6, AR316: 5, AR089: 3 S0052: 1		
1593	HNGBE44	825391	1603	208 - 228	4200		H0676: 1 and S0052: 1.		
1594	HNGBE63	561514	1604	158 - 292	4201	Pro-9 to Pro-14.	S0052: 1	7q36	142335, 152427, 163729, 176450, 190605, 600510, 600725
1595	HNGBI83	566815	1605	80 - 184	4202		S0052: 1		
1596	HNGBJ74	581073	1606	180 - 404	4203		S0052: 1		
1597	HNGBP30	603344	1607	36 - 146	4204		S0052: 1		
1598	HNGBQ61	690885	1608	164 - 367	4205	Gly-50 to Thr-63.	S0052: 1		
1599	HNGBS35	768027	1609	135 - 188	4206		AR213: 4, AR287: 4, AR275: 4, AR060: 4, AR309: 4, AR162: 4, AR161: 4, AR163: 4,		

						AR217: 4, AR286: 3, AR171: 3, AR165: 3, AR164: 3, AR166: 3, AR170: 3, AR308: 3, AR198: 3, AR269: 3, AR228: 3, AR291: 3, AR257: 2, AR176: 2, AR316: 2, AR181: 2, AR225: 2, AR207: 2, AR172: 2, AR236: 2, AR295: 2, AR267: 2, AR288: 2, AR270: 2, AR247: 2, AR255: 2, AR053: 2, AR173: 2, AR096: 2, AR177: 2, AR300: 2, AR296: 2, AR263: 2, AR222: 2, AR061: 2, AR200: 2, AR277: 2, AR089: 2, AR299: 2, AR175: 2, AR191: 2, AR233: 2, AR168: 2, AR229: 2, AR179: 2, AR190: 2, AR290: 2, AR261: 2, AR232: 2, AR268: 2, AR237: 2, AR239: 2, AR227: 1, AR264: 1, AR243: 1, AR289: 1, AR235: 1, AR185: 1, AR311: 1, AR234: 1, AR055: 1, AR216: 1, AR174: 1, AR183: 1, AR193: 1, AR231: 1, AR313: 1, AR203: 1, AR204: 1, AR240: 1, AR285: 1, AR196: 1, AR226: 1, AR293: 1, AR215: 1, AR238: 1, AR104: 1, AR312: 1, AR189: 1
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1600	HNGBW25	560226	1610	15 - 143	4207	Phe-21 to His-29, Arg-35 to Lys-42.	S0052: 3 AR060: 4, AR316: 3, AR089: 2 S0052: 1		
1601	HNGCF29	580201	1611	202 - 309	4208		AR089: 7, AR316: 6, AR060: 6 S0052: 1		
1602	HNGCF64	823147	1612	239 - 406	4209	Lys-25 to Pro-32.	S0052: 1		
1603	HNGDF54	702002	1613	36 - 314	4210		L0759: 7, H0305: 5, H0124: 4, L0439: 4, H0052: 2, L0770: 2, L0769: 2, L0806: 2, L0665: 2, S0052: 2, L0777: 2, L0731: 2, S0434: 2, L0597: 2, L0581: 2, S0011: 2, H0176: 1, H0589: 1, S0358: 1, H0351: 1, H0549: 1, S0222: 1, H0592: 1, H0013: 1, H0635: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1, S0346: 1, H0196: 1, H0046: 1, H0009: 1, H0050: 1, H0014: 1, H0266: 1, S0250: 1, H0039: 1, H0553: 1, H0068: 1, H0040: 1, H0264: 1, H0494: 1, H0561: 1, H0641: 1, H0529: 1, L0639: 1, L0662: 1, L0794: 1, L0766: 1, L0775: 1, L0776: 1, L0655: 1, L0791: 1, L0793: 1, L0666: 1, L0664: 1, S0053: 1, S0374: 1, S0310: 1, H0593: 1, H0435: 1, H0539: 1, H0518: 1, S0152: 1, H0521: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, H0543: 1, H0422: 1 and S0452: 1.		
1604	HNGDH22	600365	1614	389 - 640	4211	Pro-1 to Pro-6, Gly-58 to Pro-70, Gly-76 to Cys-83.	S0052: 1		
1605	HNGDH27	581074	1615	59 - 175	4212		S0052: 1		
1606	HNGDN07	847081	1616	78 - 242	4213	Cys-29 to Thr-38.	H0644: 1 and S0052: 1.		
1607	HNGDO65	830724	1617	705 - 773	4214		AR089: 9, AR316: 8,		

								AR060: 7 L0751: 5, L0754: 5, L0766: 4, L0776: 3, H0547: 3, H0658: 3, H0318: 2, L0659: 2, L0666: 2, L0665: 2, L0750: 2, L0596: 2, S0114: 1, S0418: 1, S0360: 1, H0333: 1, H0013: 1, L0038: 1, H0597: 1, S0036: 1, H0163: 1, H0040: 1, H0616: 1, H0641: 1, L0769: 1, L0771: 1, L0768: 1, L0803: 1, L0804: 1, L0774: 1, L0661: 1, L0657: 1, L0792: 1, L0663: 1, L0664: 1, S0052: 1, T0068: 1, H0696: 1, L0740: 1, L0747: 1, L0779: 1, L0758: 1 and S0026: 1.				
1608	HNGDR39	590253	1618	53 - 178	4215			S0052: 1				
1609	HNGDW78	621295	1619	206 - 313	4216	Gly-29 to Thr-35.		S0052: 1				
1610	HNGEA90	861948	1620	220 - 435	4217	Met-1 to Lys-7, Asp-28 to Ser-34.		AR060: 4, AR316: 3, AR089: 2 S0052: 1				
1611	HNGEC17	825392	1621	220 - 234	4218			S0052: 2				
1612	HNGEE06	689506	1622	29 - 136	4219			S0052: 1				
1613	HNGEF70	612780	1623	36 - 131	4220	Arg-17 to Asp-22.		S0052: 1				
1614	HNGEF72	880975	1624	238 - 309	4221			S0052: 1				
1615	HNGEI64	732066	1625	56 - 145	4222			S0052: 1				
1616	HNGEJ33	610108	1626	241 - 303	4223			L0665: 10, L0754: 6, L0438: 5, L0751: 5, L0777: 5, L0752: 5, L0755: 4, L0758: 4, S0046: 3, H0213: 3, L0769: 3, L0667: 3, L0771: 3, L0662: 3, L0659: 3, H0539: 3, L0747: 3, L0757: 3, S0276: 3, S0418: 2, H0208: 2, S0045: 2, H0428: 2, H0424: 2, H0553: 2, H0412: 2, L0638: 2, L0764: 2, L0768: 2, L0649: 2, L0666: 2, L0663: 2, H0547: 2, H0521: 2, S0404: 2, L0743: 2, L0744: 2, L0439: 2, L0756: 5p13	108962, 120940, 217050, 217050, 217070, 245050, 600837, 600946, 600946, 600946			



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1617	HNGEK64	825384	1627	144 - 251	4224	Met-1 to Ser-6.	S0052: 1								
1618	HNGEN32	621308	1628	57 - 173	4225		S0052: 1								
1619	HNGER85	825373	1629	178 - 384	4226		S0052: 1								
1620	HNGES90	853583	1630	53 - 151	4227		S0052: 1								
1621	HNGET33	825378	1631	225 - 389	4228	Thr-38 to Asn-45.	AR089: 17, AR316: 12, AR060: 8 S0052: 1								
1622	HNGEX18	621339	1632	389 - 409	4229	Met-1 to Trp-6.	AR060: 6, AR316: 5, AR089: 3 S0052: 1								
1623	HNGEY45	621331	1633	231 - 260	4230		S0052: 1 and S0428: 1.								
1624	HNGEZ02	825376	1634	298 - 375	4231		H0615: 2 and S0052: 1.								
1625	HNGEZ90	634858	1635	466 - 537	4232		AR089: 18, AR316: 14,								

									AR060: 11 H0333: 1, S0052: 1 and L0589: 1.			
1626	HNGFA25	609887	1636	211 - 402	4233	Asp-22 to Cys-30.			L0365: 1, S0052: 1 and S0216: 1.			
1627	HNGFB05	608297	1637	110 - 127	4234				S0052: 1			
1628	HNGFD30	612782	1638	14 - 112	4235				S0052: 2 and H0144: 1.			
1629	HNGFD31	663532	1639	185 - 295	4236				S0052: 2			
1630	HNGFD61	612781	1640	194 - 250	4237				H0410: 1 and S0052: 1.			
1631	HNGFG04	772548	1641	250 - 423	4238				AR060: 7, AR316: 6, AR089: 4 S0052: 3, H0635: 1, L0803: 1, L0804: 1, L0791: 1, H0710: 1, L0746: 1 and L0758: 1.	5q22	175100, 175100, 175100, 175100, 175100, 175100	
1632	HNGFG74	826457	1642	189 - 320	4239				S0052: 1			
1633	HNGFH32	826458	1643	963 - 1133	4240				AR060: 2, AR316: 1 S0052: 1			
1634	HNGFH83	636021	1644	739 - 759	4241				AR060: 8, AR316: 6, AR089: 4 S0052: 1			
1635	HNGFI21	581075	1645	34 - 183	4242	Pro-22 to Lys-30.			L0745: 7, L0662: 4, L0659: 4, L0747: 4, H0255: 3, L0770: 3, L0764: 3, L0766: 3, L0751: 3, L0758: 3, L0595: 3, H0545: 2, H0616: 2, L0769: 2, L0637: 2, L0792: 2, L0754: 2, H0556: 1, S0134: 1, H0661: 1, H0663: 1, H0177: 1, S0420: 1, H0282: 1, H0486: 1, T0039: 1, H0581: 1, H0052: 1, H0178: 1, L0471: 1, H0620: 1, H0197: 1, T0010: 1, H0688: 1, H0553: 1, H0040: 1, H0087: 1, S0352: 1, S0472: 1, H0646: 1, S0210: 1, H0529: 1, L0504: 1, L0374: 1, L0645: 1, L0648: 1, L0774: 1, L0806: 1, L0805: 1, L0661: 1, L0527: 1, L0383: 1, L0519: 1, L0666: 1, L0663: 1, L0664: 1, L0665:			

									1, S0052: 1, H0435: 1, H0670: 1, S0380: 1, L0748: 1, L0439: 1, L0740: 1, L0746: 1, L0750: 1, L0591: 1, L0603: 1, H0668: 1 and S0026: 1.			
1636	HNGFM31	567422	1646	220 - 420	4243	Ser-6 to Lys-17, Pro-37 to Glu-46, Lys-60 to Ala-66.			S0052: 1			
1637	HNGFN77	842620	1647	195 - 287	4244	Met-1 to Thr-6, Cys-32 to Thr-39, Pro-56 to Ile-66.			S0052: 1 and L0592: 1.			
1638	HNGFQ18	566865	1648	39 - 242	4245				AR176: 9, AR161: 7, AR162: 7, AR228: 7, AR163: 7, AR266: 7, AR221: 7, AR236: 6, AR182: 6, AR288: 6, AR181: 6, AR235: 6, AR215: 6, AR257: 5, AR233: 5, AR191: 5, AR293: 5, AR267: 5, AR294: 5, AR269: 5, AR309: 5, AR178: 5, AR207: 5, AR177: 5, AR282: 5, AR214: 5, AR261: 5, AR169: 5, AR289: 5, AR263: 4, AR175: 4, AR180: 4, AR275: 4, AR264: 4, AR172: 4, AR287: 4, AR200: 4, AR231: 4, AR274: 4, AR061: 4, AR223: 4, AR240: 4, AR196: 4, AR247: 4, AR229: 4, AR237: 4, AR290: 4, AR262: 4, AR291: 4, AR238: 4, AR165: 4, AR311: 4, AR190: 4, AR286: 4, AR183: 4, AR295: 4, AR164: 4, AR171: 4, AR170: 4, AR204: 4, AR260: 4, AR268: 4,			

									AR197: 4, AR166: 4, AR225: 4, AR316: 4, AR255: 4, AR256: 4, AR179: 4, AR224: 4, AR239: 4, AR185: 4, AR300: 4, AR222: 4, AR270: 4, AR296: 3, AR230: 3, AR297: 3, AR060: 3, AR055: 3, AR173: 3, AR217: 3, AR285: 3, AR174: 3, AR258: 3, AR242: 3, AR201: 3, AR089: 3, AR226: 3, AR216: 3, AR299: 3, AR227: 3, AR168: 3, AR232: 3, AR234: 3, AR096: 3, AR039: 3, AR203: 3, AR188: 3, AR033: 3, AR192: 3, AR250: 3, AR104: 2, AR053: 2, AR211: 2, AR313: 2, AR189: 2, AR272: 2, AR308: 2, AR277: 2, AR198: 2, AR271: 2, AR210: 2, AR243: 2, AR312: 2, AR199: 2, AR218: 2, AR283: 2, AR246: 2, AR219: 1, AR193: 1, AR213: 1 S0052: 1					
1639	HNGFR54	695748	1649	73 - 231	4246	Trp-6 to Tyr-11.	S0052: 2							
1640	HNGFT70	581079	1650	102 - 170	4247	Ser-16 to Ser-22.	S0052: 1							
1641	HNGFU70	610109	1651	24 - 125	4248		S0052: 1							
1642	HNGFV39	859476	1652	262 - 291	4249		S0052: 1							
1643	HNGGF13	638117	1653	83 - 562	4250	Trp-60 to Trp-67, Gln-69 to Thr-78, Glu-97 to His-107, Gln-145 to Trp-152.	AR089: 130, AR316: 122, AR060: 117 S0052: 1							

1644	HNGGK63	822862	1654	225 - 296	4251		AR204: 19, AR198: 8, AR186: 8, AR206: 7, AR244: 7, AR061: 6, AR246: 6, AR055: 6, AR241: 6, AR052: 5, AR060: 4, AR089: 4, AR310: 4, AR243: 4, AR192: 4, AR267: 4, AR033: 3, AR283: 3, AR185: 3, AR313: 3, AR271: 3, AR309: 3, AR053: 3, AR312: 3, AR213: 3, AR182: 3, AR249: 3, AR253: 3, AR202: 3, AR299: 3, AR265: 3, AR248: 3, AR316: 3, AR270: 3, AR247: 3, AR286: 3, AR296: 3, AR229: 2, AR183: 2, AR282: 2, AR298: 2, AR268: 2, AR289: 2, AR284: 2, AR300: 2, AR277: 2, AR269: 2, AR238: 2, AR293: 2, AR256: 2, AR175: 1, AR285: 1, AR259: 1, AR292: 1, AR096: 1 S0052: 1	9p13.1-13.3	
1645	HNGGK65	847148	1655	38 - 154	4252		AR060: 2, AR316: 1 H0663: 3, L0776: 3, L0747: 3, L0769: 2, L0805: 2, L0748: 2, L0749: 2, S0134: 1, H0351: 1, S0049: 1, H0051: 1, H0428: 1, L0662: 1, L0774: 1, L0792: 1, S0052: 1, L0756: 1, S0031: 1 and L0465: 1.		
1646	HNGGL11	745818	1656	392 - 553	4253		AR089: 3, AR316: 3, AR060: 2 L0748: 4, H0637: 1 and		

1647	HNGGO05	842158	1657				S0052: 1.			
1648	HNGGS92	866178	1658	43 - 108	4254		S0052: 1			
1649	HNGGT10	866179	1659	107 - 220	4255		S0052: 1			
				1 - 480	4256	Asp-52 to Asn-63, Thr-126 to Gly-134, Glu-142 to Arg-147.	AR241: 13, AR198: 13, AR192: 11, AR204: 10, AR089: 10, AR313: 9, AR194: 9, AR060: 8, AR274: 8, AR104: 8, AR273: 7, AR039: 7, AR246: 7, AR316: 7, AR271: 7, AR186: 7, AR275: 7, AR205: 6, AR243: 6, AR312: 6, AR251: 6, AR185: 6, AR053: 5, AR206: 5, AR061: 5, AR244: 5, AR300: 5, AR310: 5, AR052: 5, AR249: 4, AR277: 4, AR055: 4, AR253: 4, AR213: 4, AR309: 3, AR247: 3, AR096: 3, AR248: 3, AR283: 3, AR240: 3, AR033: 3, AR263: 3, AR184: 3, AR299: 2, AR282: 2, AR295: 2, AR265: 2, AR266: 1, AR269: 1, AR268: 1 L0438: 4, L0665: 3, L0754: 3, H0713: 2, H0637: 2, L0803: 2, L0804: 2, L0806: 2, L0602: 2, L0747: 2, L0777: 2, S0436: 2, H0716: 1, H0730: 1, S0476: 1, H0333: 1, H0486: 1, H0635: 1, H0575: 1, H0052: 1, H0546: 1, H0041: 1, H0081: 1, H0617: 1, H0606: 1, H0124: 1, H0059: 1, H0560: 1, H0130: 1, S0144: 1, S0142: 1, L0369: 1, L5565: 1, L0643: 1, L0764: 1, L0662:			

1650	HNGGT74	772549	1660	153 - 197	4257		1, L0775: 1, L0375: 1, L0805: 1, L0659: 1, L0790: 1, S0052: 1, H0693: 1, L0749: 1, L0750: 1, L0731: 1, L0757: 1, S0434: 1, L0591: 1 and S0276: 1.		
1651	HNGHB89	722238	1661	160 - 165	4258		AR060: 3, AR316: 2, AR089: 1 S0052: 1		
1652	HNGHD07	608149	1662	248 - 358	4259		H0618: 1, H0253: 1, S0052: 1 and H0539: 1.	11	
1653	HNGHK37	609889	1663	234 - 272	4260		S0052: 1		
1654	HNGHM47	825363	1664	18 - 143	4261		AR060: 5, AR316: 3, AR089: 2 S0052: 1		
1655	HNGHT01	604865	1665	54 - 149	4262	Pro-23 to Gly-30.	S0052: 1		
1656	HNGHT86	897685	1666	221 - 781	4263	Pro-35 to Arg-47, Ala-51 to Glu-62, Gly-99 to Trp-111, His-121 to Gly-137.	AR060: 2, AR316: 2, AR089: 1 S0052: 1		
1657	HNGIH40	638119	1667	100 - 357	4264		S0052: 2, S0428: 2 and L0600: 1.		
1658	HNGIK07	825360	1668	227 - 286	4265		S0052: 2, H0587: 1, H0135: 1, L0803: 1, L0805: 1, L0776: 1, L0783: 1, L0809: 1, L0790: 1, L0779: 1, L0777: 1, L0757: 1 and L0758: 1.	7q35-q36	118425, 118425, 142335, 152427, 163729, 176450, 180105, 190605, 276000, 276000, 600510, 600725
1659	HNGIM40	747699	1669	49 - 150	4266		S0052: 1 and L0439: 1.	7q21.3-q22.1	120160, 120160, 120160, 126650, 126650, 129900, 154276, 173360, 173360, 183600, 602136, 602136, 602447

1660	HNGIM83	751714	1670	69 - 344	4267			S0052: 1, H0519: 1 and L0595: 1.		
1661	HNGIO93	897527	1671	151 - 597	4268	Ser-32 to Gly-44, Ser-46 to Gly-58.		AR316: 9, AR089: 9, AR060: 9 L0747: 15, L0755: 8, L0731: 8, H0657: 7, L0750: 7, L0758: 5, L0769: 4, L0752: 4, H0617: 3, H0633: 3, L0764: 3, L0740: 3, L0749: 3, H0419: 2, H0483: 2, S0045: 2, H0494: 2, H0641: 2, L0651: 2, L0776: 2, L0809: 2, L0439: 2, S0276: 2, H0543: 2, S0040: 1, H0650: 1, H0656: 1, H0341: 1, H0459: 1, H0125: 1, S0418: 1, H0455: 1, H0587: 1, H0642: 1, H0485: 1, H0486: 1, T0039: 1, H0013: 1, H0156: 1, H0253: 1, H0318: 1, H0052: 1, H0544: 1, H0546: 1, H0081: 1, H0012: 1, H0014: 1, H0239: 1, H0188: 1, H0687: 1, S0312: 1, H0031: 1, H0606: 1, H0674: 1, H0135: 1, H0090: 1, H0063: 1, H0059: 1, T0042: 1, H0561: 1, H0649: 1, S0210: 1, S0422: 1, L0643: 1, L0771: 1, L0521: 1, L0767: 1, L0766: 1, L0551: 1, L0774: 1, L0775: 1, L0655: 1, L0518: 1, L0782: 1, L0383: 1, L0519: 1, L0528: 1, L0789: 1, S0052: 1, S0374: 1, L0352: 1, H0547: 1, H0670: 1, H0666: 1, H0521: 1, S0044: 1, S0037: 1, L0742: 1, L0751: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1, H0653: 1 and H0423: 1.		
1662	HNGIS27	825351	1672	213 - 374	4269	Met-1 to His-7, Pro-42 to Glu-49.		AR186: 8, AR204: 7, AR246: 7, AR060: 7, AR052: 7, AR055: 6, AR206: 6, AR244: 6,		